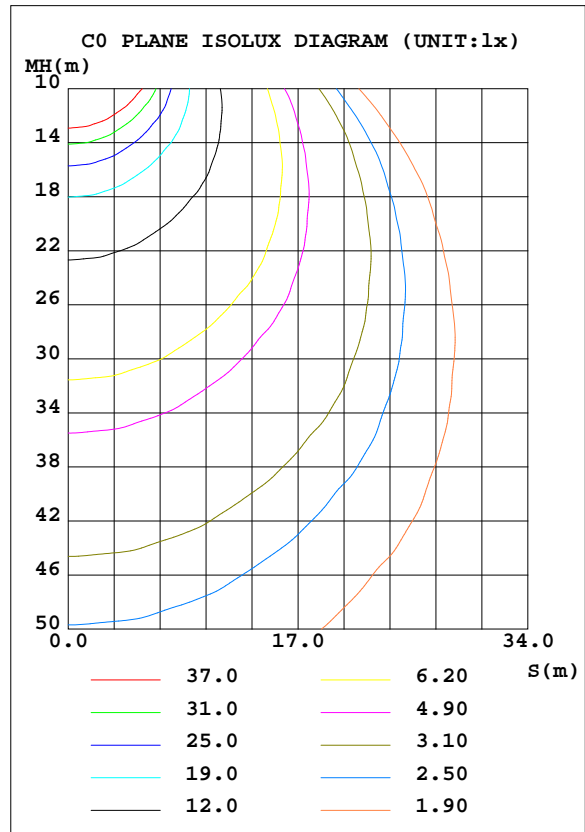
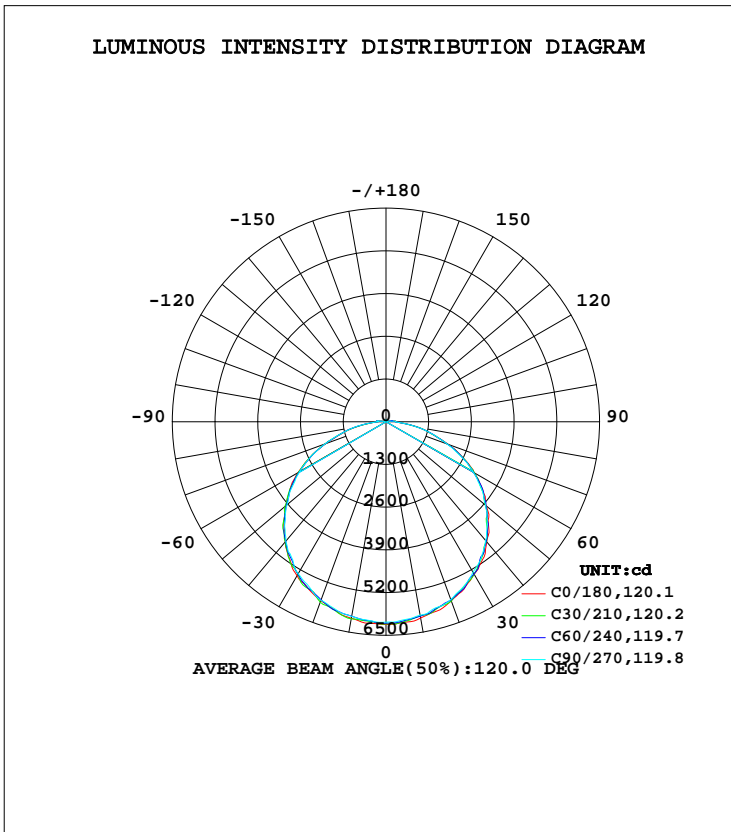


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.001x182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.94 lm/W			
MODEL		I _{max} (cd)	6172	S/MH(C0/180)	1.30
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	19656	η UP, DN(C0-180)	1.2,48.6
NOMINAL FLUX(lm)	108.001	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3,48.8
LAMPS INSIDE	182	η up(%)	2.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	97.5	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	6074	6050	6015	5981	6063	6000	5977	5971	0- 10	578.4	578.4	2.94,2.94
20	5797	5811	5782	5716	5802	5792	5758	5710	10- 20	1670	2249	11.4,11.4
30	5414	5354	5344	5291	5359	5357	5289	5335	20- 30	2570	4818	24.5,24.5
40	4767	4760	4742	4687	4772	4753	4714	4721	30- 40	3168	7987	40.6,40.6
50	3980	3996	3929	3904	3976	3963	3954	3942	40- 50	3369	11355	57.8,57.8
60	3089	3054	3031	3044	3088	3089	3059	3072	50- 60	3160	14515	73.8,73.8
70	1960	1968	1976	1955	2011	1999	1973	1979	60- 70	2512	17028	86.6,86.6
80	930.9	962.8	986.3	987.0	998.8	998.7	986.6	996.4	70- 80	1537	18565	94.4,94.4
90	255.1	250.0	253.8	278.0	280.0	290.2	293.4	261.8	80- 90	595.5	19160	97.5,97.5
100	126.2	80.51	93.73	91.53	113.1	159.8	130.8	120.3	90-100	244.5	19405	98.7,98.7
110	27.27	31.02	31.09	36.60	41.89	47.01	33.78	30.90	100-110	64.03	19469	99,99
120	32.07	31.95	32.25	31.70	36.04	35.94	35.77	35.77	110-120	35.06	19504	99.2,99.2
130	39.51	39.27	39.20	39.00	43.33	43.09	43.04	42.78	120-130	33.37	19537	99.4,99.4
140	47.96	47.70	47.58	47.40	50.88	50.49	50.26	49.98	130-140	34.87	19572	99.6,99.6
150	55.25	55.08	54.88	54.68	57.18	56.64	56.31	55.96	140-150	32.93	19605	99.7,99.7
160	61.21	60.97	60.70	60.44	62.25	61.74	61.32	60.88	150-160	26.99	19632	99.9,99.9
170	66.21	65.91	65.71	65.34	67.05	66.54	65.98	65.57	160-170	17.96	19650	100,100
180	69.19	68.85	68.39	67.90	69.37	68.83	68.33	67.92	170-180	6.406	19656	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9673.2 lm

%lum = 49.2%

%lamp = 49.2%

Conical surface Flux(120deg): 14515 lm

%lum = 73.8%

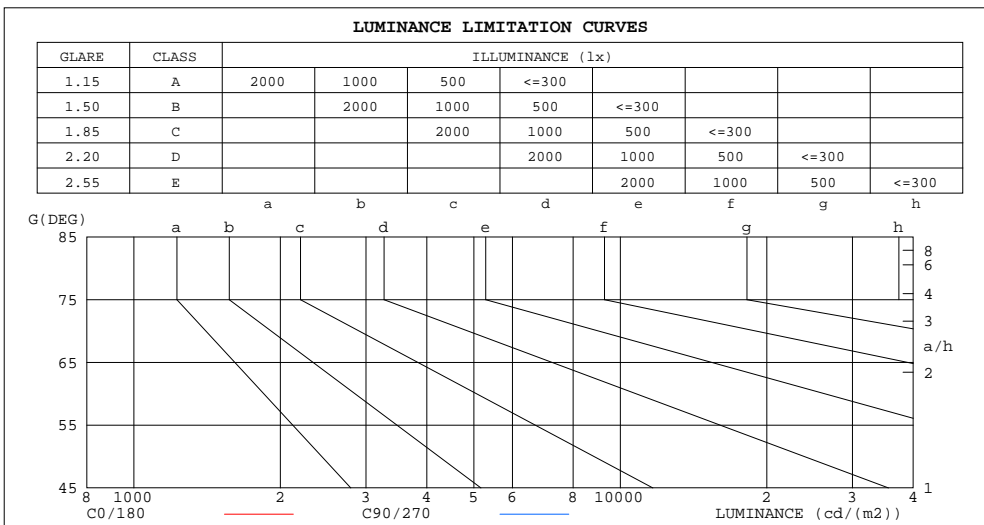
%lamp = 73.8%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	565103	619439
80	564310	597894
75	563441	575217
70	603137	608003
65	632162	632713
60	650334	638197
55	654064	643532
50	651808	643465
45	655149	649246

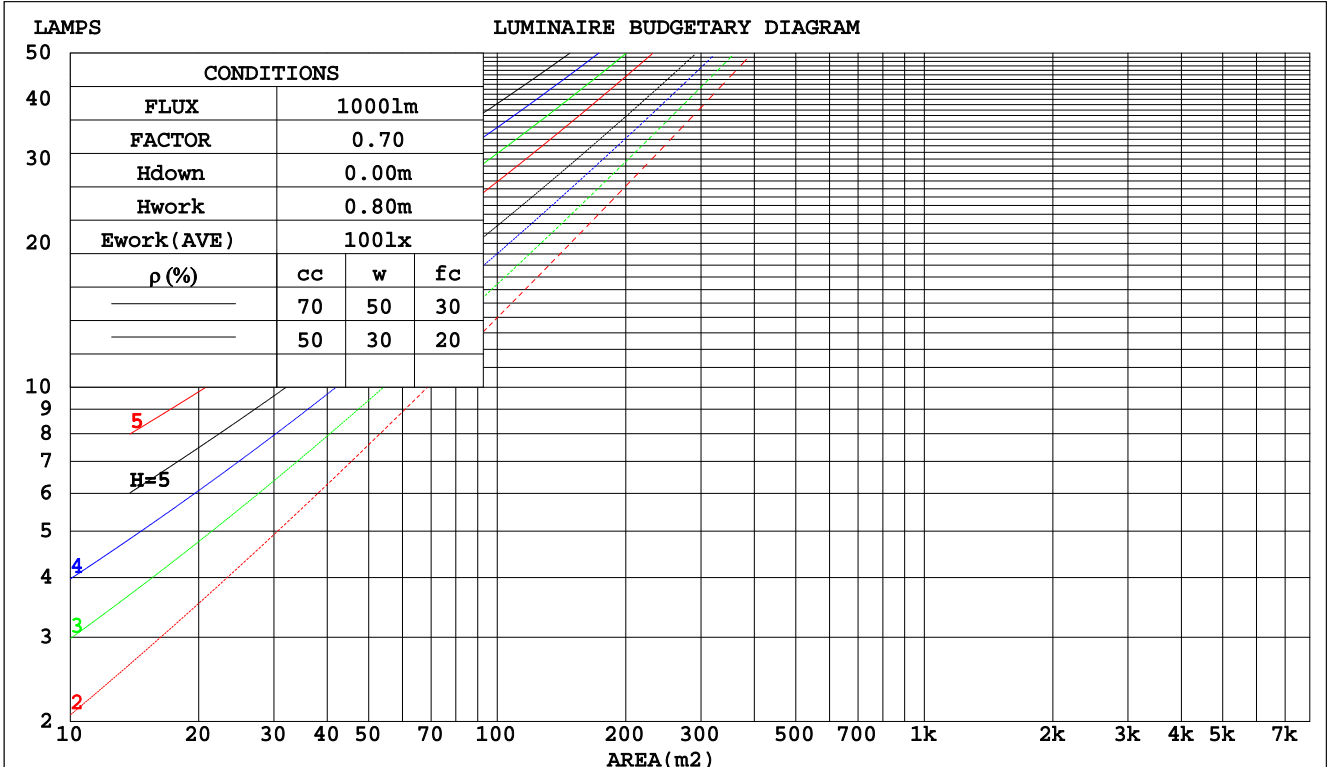
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 10.100m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.97
1.0	1.02	.98	.94	.00	.96	.92	.95	.92	.88	.91	.88	.85	.87	.84	.82	.80
2.0	.89	.81	.75	.86	.80	.74	.82	.77	.72	.79	.74	.70	.75	.72	.68	.66
3.0	.77	.69	.62	.76	.68	.61	.72	.65	.60	.69	.63	.59	.66	.61	.57	.55
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.61	.55	.50	.59	.53	.49	.46
5.0	.61	.52	.45	.59	.51	.44	.57	.49	.44	.55	.48	.43	.53	.47	.42	.40
6.0	.55	.45	.39	.53	.45	.39	.51	.44	.38	.49	.43	.37	.48	.42	.37	.35
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.43	.37	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.41	.34	.29	.40	.34	.29	.27
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.24
10.0	.38	.30	.25	.37	.30	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.001x182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.329	.187	.059	.321	.183	.058	.306	.176	.056	.293	.169	.054	.280	.162	.052	
2.0	.304	.167	.051	.297	.164	.050	.284	.158	.049	.272	.153	.048	.261	.147	.046	
3.0	.279	.148	.044	.273	.146	.044	.261	.141	.043	.250	.137	.042	.240	.133	.041	
4.0	.256	.133	.039	.250	.131	.039	.240	.127	.038	.230	.124	.037	.221	.120	.037	
5.0	.236	.120	.035	.231	.118	.034	.221	.115	.034	.213	.112	.033	.205	.109	.033	
6.0	.218	.109	.031	.213	.108	.031	.205	.105	.031	.197	.102	.030	.190	.100	.030	
7.0	.202	.100	.028	.198	.099	.028	.191	.096	.028	.184	.094	.027	.177	.092	.027	
8.0	.188	.092	.026	.185	.091	.026	.178	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.176	.085	.024	.173	.084	.024	.167	.083	.023	.161	.081	.023	.156	.079	.023	
10.0	.165	.079	.022	.163	.079	.022	.157	.077	.022	.152	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.201	.175	.152	.172	.150	.131	.118	.104	.091	.068	.060	.053	.022	.019	.017	
2.0	.193	.151	.116	.166	.130	.100	.114	.090	.070	.065	.052	.041	.021	.017	.013	
3.0	.186	.134	.093	.159	.116	.080	.109	.080	.056	.063	.047	.033	.020	.015	.011	
4.0	.178	.121	.077	.153	.104	.067	.105	.073	.047	.061	.043	.028	.020	.014	.009	
5.0	.171	.111	.066	.147	.096	.058	.101	.067	.041	.059	.039	.024	.019	.013	.008	
6.0	.163	.102	.058	.141	.089	.051	.097	.062	.036	.056	.036	.021	.018	.012	.007	
7.0	.157	.095	.053	.135	.083	.046	.093	.058	.033	.054	.034	.019	.017	.011	.006	
8.0	.150	.090	.048	.129	.078	.042	.089	.055	.030	.052	.032	.018	.017	.011	.006	
9.0	.144	.085	.045	.124	.074	.039	.086	.052	.028	.050	.031	.017	.016	.010	.005	
10.0	.138	.081	.042	.119	.070	.037	.083	.049	.026	.048	.029	.016	.016	.010	.005	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm										
NAME: SPS1504-HL10B-182NW-5					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:D110mm			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	35.3	36.9	35.7	37.1	37.4	35.3	36.8	35.6	37.0	37.3
3H	37.0	38.4	37.3	38.7	39.0	36.9	38.3	37.3	38.6	38.9
4H	37.6	39.0	38.0	39.3	39.6	37.6	38.9	37.9	39.2	39.5
6H	38.2	39.4	38.5	39.7	40.1	38.2	39.4	38.5	39.8	40.1
8H	38.4	39.6	38.7	39.9	40.3	38.4	39.6	38.8	40.0	40.3
12H	38.5	39.7	38.9	40.0	40.4	38.6	39.8	39.0	40.1	40.5
4H 2H	36.0	37.3	36.3	37.6	37.9	35.9	37.3	36.3	37.6	37.9
3H	37.8	39.0	38.2	39.3	39.7	37.7	38.9	38.1	39.3	39.6
4H	38.6	39.6	39.0	40.0	40.4	38.5	39.6	39.0	40.0	40.4
6H	39.3	40.2	39.7	40.6	41.0	39.3	40.2	39.7	40.6	41.1
8H	39.5	40.4	40.0	40.8	41.3	39.6	40.5	40.0	40.9	41.3
12H	39.7	40.5	40.2	41.0	41.4	39.8	40.6	40.3	41.1	41.5
8H 4H	38.9	39.8	39.3	40.2	40.6	38.9	39.7	39.3	40.2	40.6
6H	39.7	40.5	40.2	40.9	41.4	39.8	40.5	40.3	41.0	41.5
8H	40.1	40.8	40.6	41.2	41.7	40.2	40.9	40.7	41.3	41.8
12H	40.4	41.0	40.9	41.5	42.0	40.5	41.1	41.1	41.6	42.1
12H 4H	38.9	39.7	39.4	40.2	40.6	38.9	39.7	39.3	40.1	40.6
6H	39.8	40.5	40.3	41.0	41.5	39.9	40.5	40.4	41.0	41.5
8H	40.2	40.8	40.8	41.3	41.8	40.3	40.9	40.8	41.4	41.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 19656 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 10.3)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

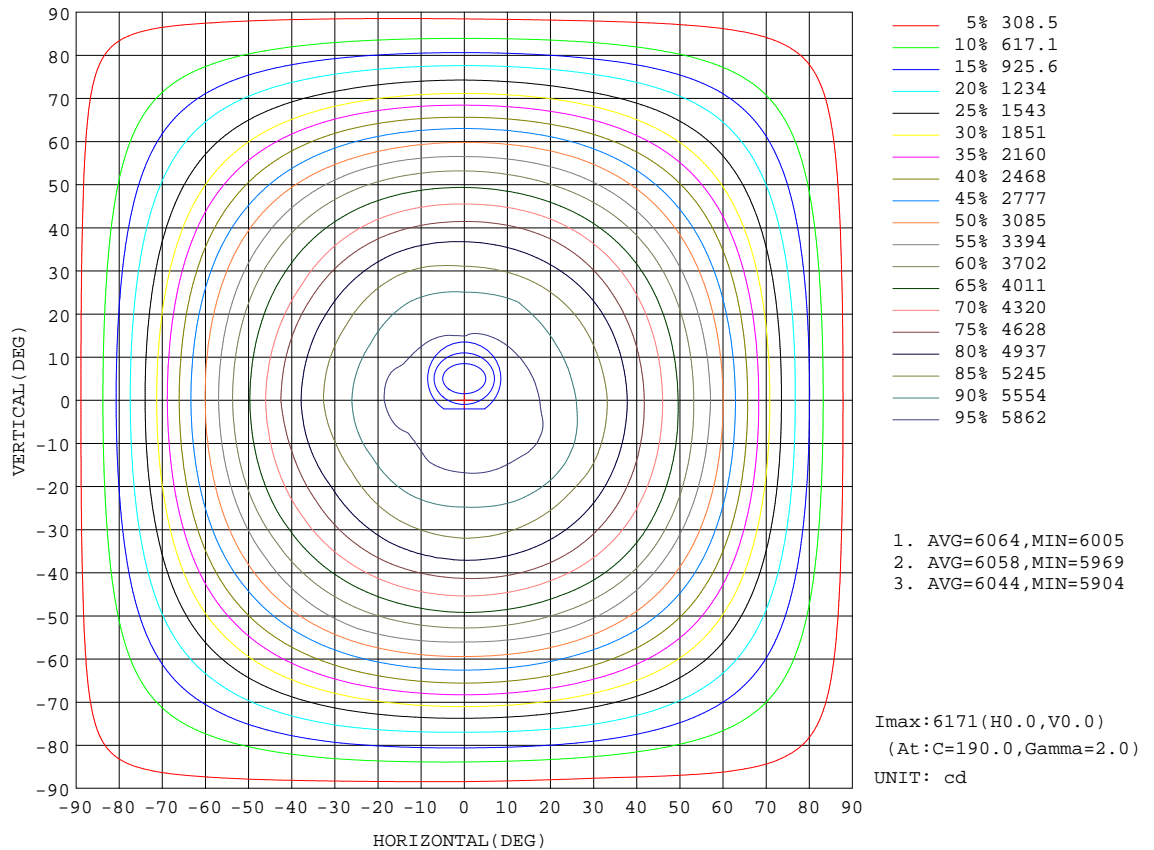
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	53	42	36	29
0.80	65	53	45	64	53	45	62	52	45	38
1.00	73	62	54	72	61	54	70	63	53	46
1.25	81	69	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	81	72	66	58
2.00	93	84	77	91	82	76	87	80	74	66
2.50	97	88	82	95	87	81	90	84	79	70
3.00	100	93	87	98	91	86	93	88	83	74
4.00	104	98	93	102	96	92	97	93	89	79
5.00	107	102	97	104	100	96	99	96	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

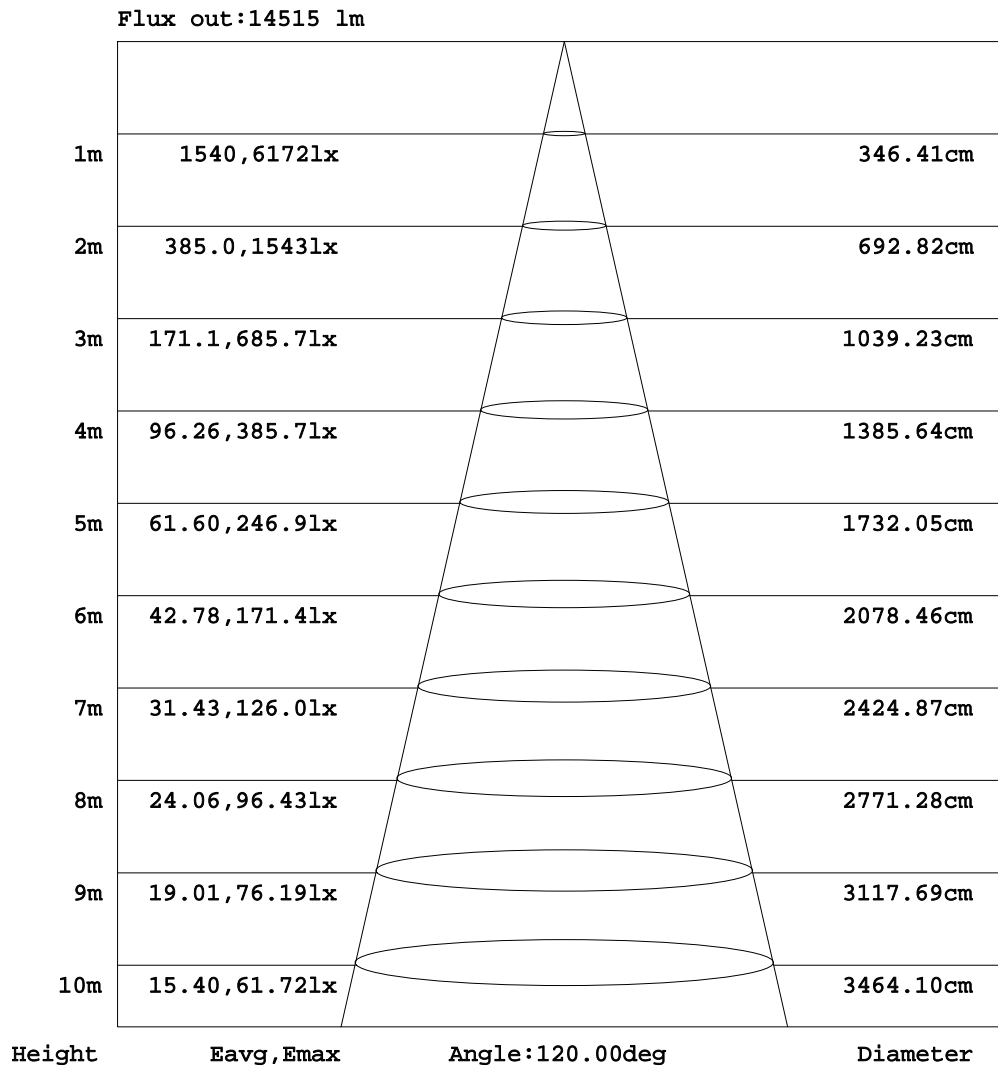


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:



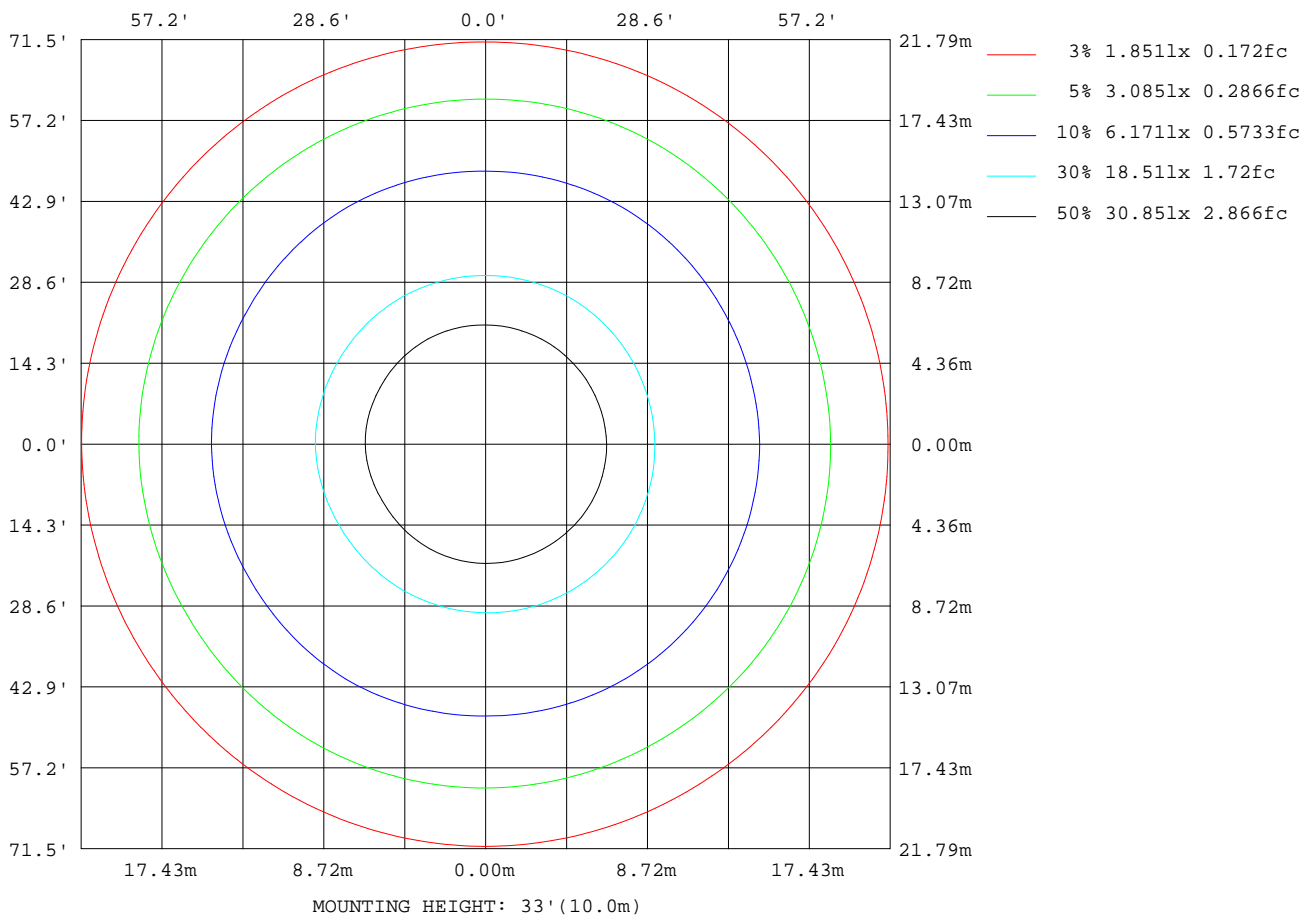
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

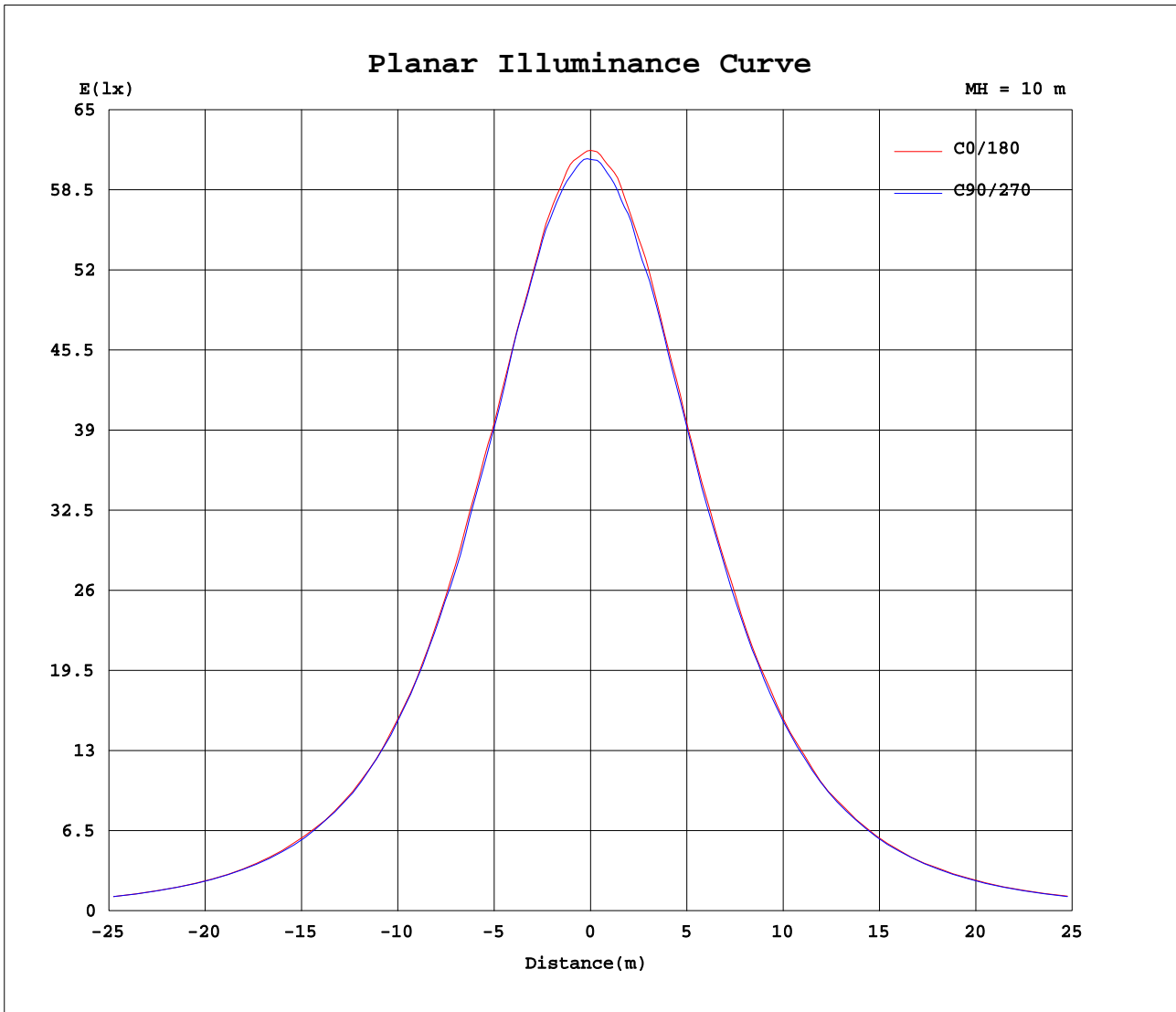
Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 10.100m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 10.100m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	6171	6165	6159	6152	6144	6136	6127	6116	6106	6097	6094	6093	6091	6082	6075	6077	6107	6141	6171
5	6157	6130	6109	6093	6083	6078	6075	6075	6073	6067	6048	6027	6008	5997	5994	6003	6043	6087	6126
10	6074	6090	6095	6090	6065	6036	6009	6007	6011	6015	6010	6002	5994	5984	5978	5979	6009	6040	6063
15	5944	5951	5956	5958	5956	5952	5945	5937	5926	5915	5904	5893	5883	5869	5860	5862	5898	5937	5968
20	5797	5828	5844	5847	5825	5798	5771	5773	5778	5782	5767	5748	5730	5719	5714	5718	5744	5774	5802
25	5606	5606	5606	5605	5605	5602	5596	5577	5557	5541	5545	5554	5562	5557	5552	5552	5576	5602	5621
30	5414	5391	5373	5360	5355	5353	5353	5351	5348	5344	5336	5327	5316	5298	5284	5278	5302	5331	5359
35	5107	5121	5126	5122	5104	5080	5057	5042	5031	5023	5019	5017	5016	5005	4998	5001	5040	5084	5120
40	4767	4771	4773	4771	4764	4756	4749	4747	4745	4742	4731	4718	4705	4691	4683	4684	4711	4743	4772
45	4401	4429	4444	4445	4422	4393	4365	4361	4361	4361	4350	4338	4326	4317	4314	4320	4353	4388	4412
50	3980	4003	4016	4018	4006	3987	3966	3952	3940	3929	3918	3910	3904	3902	3905	3913	3935	3958	3976
55	3564	3567	3568	3567	3563	3557	3548	3532	3517	3507	3515	3527	3535	3519	3502	3493	3523	3559	3589
60	3089	3085	3079	3071	3060	3049	3039	3034	3031	3031	3034	3039	3043	3043	3044	3048	3060	3075	3088
65	2538	2544	2546	2545	2537	2529	2522	2527	2534	2540	2538	2534	2530	2525	2523	2525	2539	2556	2571
70	1960	1967	1971	1973	1970	1966	1962	1966	1971	1976	1978	1978	1976	1962	1949	1943	1963	1988	2011
75	1385	1404	1417	1425	1427	1425	1421	1417	1415	1414	1423	1433	1442	1439	1435	1432	1436	1441	1447
80	931	932	936	943	956	970	982	984	985	986	997	1006	1011	996	978	964	972	985	999
85	468	473	477	481	483	486	490	497	505	513	521	528	531	525	517	509	510	513	515
90	255	254	254	253	251	249	248	249	251	254	260	267	273	277	279	281	280	280	280
95	262	264	267	272	280	287	292	289	284	281	288	294	297	282	266	252	259	270	281
100	126	122	115	106	88.6	72.5	61.2	69.0	81.3	93.7	94.8	93.4	91.2	91.1	92.0	94.3	100	107	113
105	52.5	49.4	46.7	44.5	42.5	41.0	40.1	40.2	40.8	41.5	41.4	41.4	42.0	44.4	47.3	50.3	52.9	54.8	55.6
110	27.3	30.2	32.0	32.8	31.8	30.3	28.9	29.1	29.9	31.1	32.8	34.6	36.2	36.5	36.7	37.0	38.3	40.0	41.9
115	34.3	35.0	35.3	35.4	34.9	34.3	33.7	33.6	33.8	34.4	36.0	37.5	38.2	35.7	32.9	30.5	31.7	33.5	35.4
120	32.1	32.0	32.0	32.0	32.0	31.9	31.9	32.1	32.2	32.3	32.2	32.2	32.1	31.8	31.6	31.8	33.1	34.7	36.0
125	35.4	35.3	35.2	35.2	35.2	35.2	35.2	35.1	35.1	35.1	35.1	35.1	35.2	34.9	34.8	35.1	36.4	38.0	39.3
130	39.5	39.4	39.4	39.3	39.3	39.3	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.0	39.0	39.2	40.5	42.0	43.3
135	43.8	43.7	43.6	43.5	43.5	43.5	43.5	43.5	43.4	43.4	43.4	43.4	43.5	43.3	43.2	43.4	44.7	46.0	47.2
140	48.0	47.8	47.8	47.7	47.7	47.7	47.7	47.7	47.6	47.6	47.6	47.6	47.6	47.4	47.4	47.5	48.6	49.8	50.9
145	51.9	51.9	51.9	51.8	51.8	51.7	51.7	51.7	51.6	51.6	51.6	51.6	51.6	51.4	51.4	51.5	52.4	53.4	54.2
150	55.3	55.2	55.2	55.2	55.1	55.0	55.0	54.9	54.9	54.9	54.9	54.9	54.9	54.7	54.7	54.8	55.6	56.4	57.2
155	58.3	58.3	58.3	58.2	58.1	58.1	58.0	58.0	57.9	57.9	57.9	57.9	57.9	57.7	57.6	57.7	58.4	59.1	59.7
160	61.2	61.2	61.2	61.1	61.0	60.9	60.8	60.8	60.7	60.7	60.7	60.6	60.6	60.5	60.4	60.5	61.1	61.7	62.2
165	63.9	63.9	63.8	63.8	63.7	63.5	63.4	63.4	63.4	63.4	63.3	63.2	63.1	63.0	63.0	63.1	63.6	64.2	64.6
170	66.2	66.2	66.2	66.1	66.0	65.8	65.7	65.7	65.7	65.7	65.6	65.5	65.4	65.3	65.3	65.4	66.0	66.6	67.0
175	68.1	68.1	68.0	68.0	67.8	67.7	67.5	67.5	67.5	67.4	67.4	67.3	67.2	67.1	67.1	67.2	67.7	68.2	68.6
180	69.2	69.2	69.1	69.1	68.9	68.8	68.6	68.5	68.5	68.4	68.3	68.1	68.0	67.9	67.9	68.0	68.4	69.0	69.4

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.10V I:0.6620A P:147.85W PF:0.9706 Freq:50.00Hz Lamp Flux:108.00lx182 lm		
NAME: SPS1504-HL10B-182NW-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:D110mm	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	6172	6164	6152	6144	6136	6127	6116	6106	6097	6094	6093	6091	6082	6075	6077	6096	6127		
5	6130	6124	6111	6103	6093	6083	6071	6060	6054	6061	6071	6081	6077	6074	6077	6094	6121		
10	6047	6022	5997	5998	6003	6007	5998	5986	5977	5980	5984	5988	5976	5966	5964	5986	6023		
15	5955	5931	5904	5894	5888	5883	5872	5863	5859	5873	5889	5902	5892	5881	5874	5887	5910		
20	5810	5811	5807	5797	5786	5774	5769	5764	5758	5749	5739	5729	5715	5706	5705	5723	5754		
25	5605	5584	5564	5576	5591	5604	5590	5571	5555	5558	5565	5571	5559	5547	5541	5552	5573		
30	5364	5363	5359	5358	5355	5348	5327	5306	5289	5292	5301	5315	5328	5342	5357	5375	5394		
35	5113	5094	5069	5051	5037	5028	5034	5044	5054	5051	5047	5042	5039	5041	5046	5061	5081		
40	4775	4770	4762	4756	4750	4743	4732	4721	4714	4718	4724	4729	4724	4719	4717	4727	4744		
45	4385	4350	4322	4345	4375	4402	4389	4370	4351	4355	4364	4375	4377	4378	4379	4384	4392		
50	3972	3964	3955	3960	3967	3972	3968	3962	3954	3948	3942	3939	3940	3943	3950	3958	3968		
55	3580	3563	3548	3562	3579	3593	3579	3561	3545	3551	3560	3568	3559	3549	3541	3543	3551		
60	3097	3102	3103	3094	3083	3071	3064	3060	3059	3068	3078	3085	3077	3067	3059	3063	3073		
65	2573	2572	2568	2568	2567	2564	2555	2546	2538	2538	2540	2543	2543	2543	2542	2541	2540		
70	2015	2013	2008	2002	1996	1989	1982	1976	1973	1977	1982	1986	1982	1977	1971	1966	1963		
75	1447	1448	1449	1460	1470	1477	1474	1466	1457	1449	1442	1439	1449	1458	1462	1448	1422		
80	1001	1001	1000	999	998	997	993	990	987	985	984	985	993	1000	1001	987	964		
85	511	506	502	504	507	512	515	518	519	518	515	511	504	495	487	480	474		
90	283	287	290	290	290	290	293	294	293	284	274	264	262	262	262	261	258		
95	280	276	269	260	251	245	247	252	257	256	255	256	265	275	282	280	274		
100	112	113	119	146	174	193	180	157	131	113	99.7	94.4	110	130	148	149	142		
105	51.9	48.6	47.6	56.8	67.5	76.9	78.1	76.1	71.8	64.5	57.3	52.0	55.2	60.0	64.1	62.9	59.0		
110	44.0	45.8	47.2	47.4	46.7	45.0	41.5	37.5	33.8	31.7	30.4	29.8	30.5	31.4	32.0	31.2	29.6		
115	35.2	34.7	34.3	35.5	36.8	37.9	37.5	36.8	36.2	36.6	37.2	37.9	38.5	38.8	38.7	37.8	36.4		
120	36.3	36.1	35.9	35.9	36.0	36.0	35.9	35.9	35.8	35.7	35.6	35.5	35.7	35.8	35.6	34.9	33.7		
125	39.6	39.5	39.2	39.1	39.1	39.0	39.0	39.0	39.0	39.0	38.9	38.8	38.9	38.9	38.7	37.9	36.8		
130	43.5	43.4	43.2	43.1	43.1	43.0	43.0	43.0	43.0	42.9	42.8	42.7	42.8	42.8	42.6	41.9	40.9		
135	47.4	47.3	47.0	46.9	46.9	46.9	46.8	46.8	46.8	46.7	46.6	46.5	46.5	46.5	46.3	45.7	44.9		
140	51.0	50.9	50.6	50.5	50.5	50.4	50.4	50.3	50.3	50.2	50.1	50.0	50.0	49.9	49.8	49.3	48.7		
145	54.3	54.2	53.9	53.8	53.7	53.6	53.6	53.5	53.5	53.4	53.3	53.3	53.2	53.1	53.0	52.7	52.4		
150	57.2	57.0	56.7	56.7	56.6	56.6	56.5	56.4	56.3	56.2	56.2	56.1	56.0	55.9	55.8	55.7	55.5		
155	59.7	59.6	59.3	59.3	59.2	59.2	59.1	59.0	58.9	58.8	58.7	58.7	58.6	58.5	58.4	58.3	58.3		
160	62.3	62.1	61.9	61.8	61.7	61.6	61.5	61.4	61.3	61.2	61.1	61.0	60.9	60.8	60.8	60.9	61.0		
165	64.6	64.5	64.3	64.2	64.1	64.0	63.9	63.7	63.6	63.5	63.4	63.4	63.2	63.1	63.1	63.3	63.5		
170	67.0	66.8	66.6	66.6	66.5	66.4	66.3	66.1	66.0	65.9	65.8	65.8	65.6	65.5	65.5	65.6	65.9		
175	68.5	68.3	68.1	68.1	68.1	68.0	67.8	67.7	67.5	67.4	67.4	67.3	67.1	67.0	67.0	67.2	67.5		
180	69.3	69.1	68.9	68.8	68.8	68.8	68.7	68.5	68.3	68.3	68.2	68.1	68.0	67.9	67.9	68.1	68.6		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-05-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:10.100m [K=1.0000]
 Remarks: