

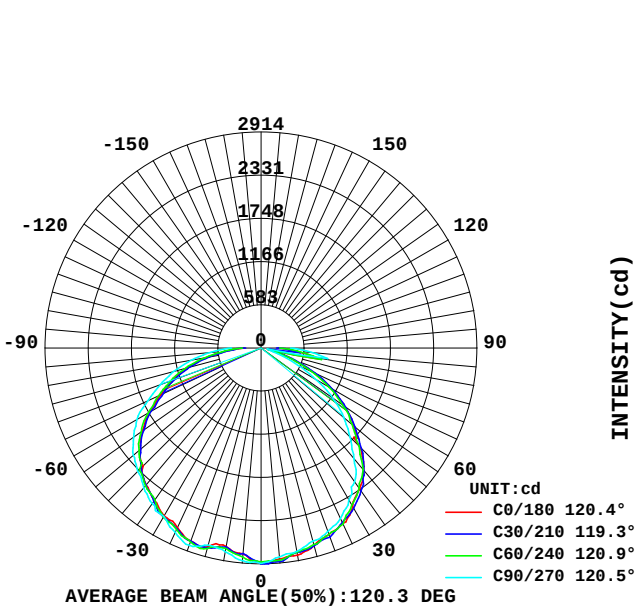
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

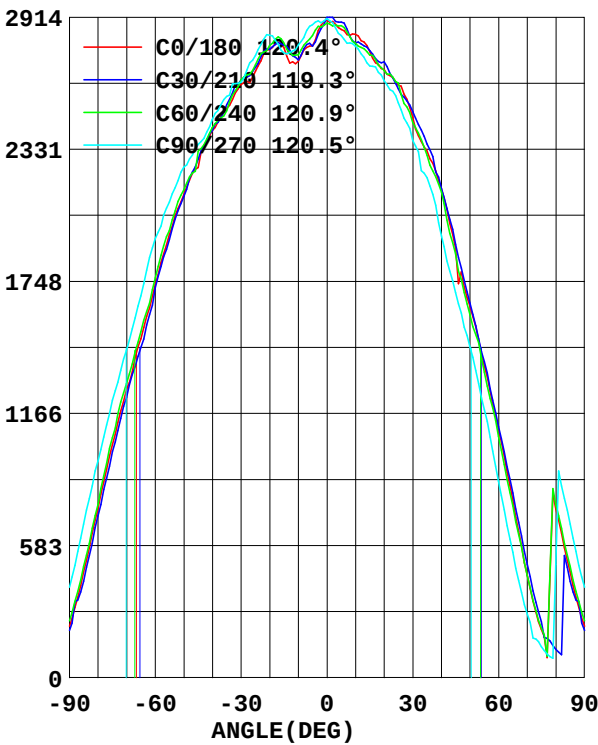
MANUFACTURER:			
Address:			
NAME: CES-EX-GB--02-80		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	2914	S/MH(C0/180)	1.34
MODEL	CES-EX-GB-02-80	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.36
NOMINAL POWER(W)	80	TOTAL FLUX(lm)	9284.3	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	115.5	Current(A)	0.376
NOMINAL FLUX(lm)	9284.3	η up(%)	0.0	Power(W)	80.40
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.975
TEST VOLTAGE(V)	218.6	Effictive Flux(lm)	9190.1	EEI	0.119

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



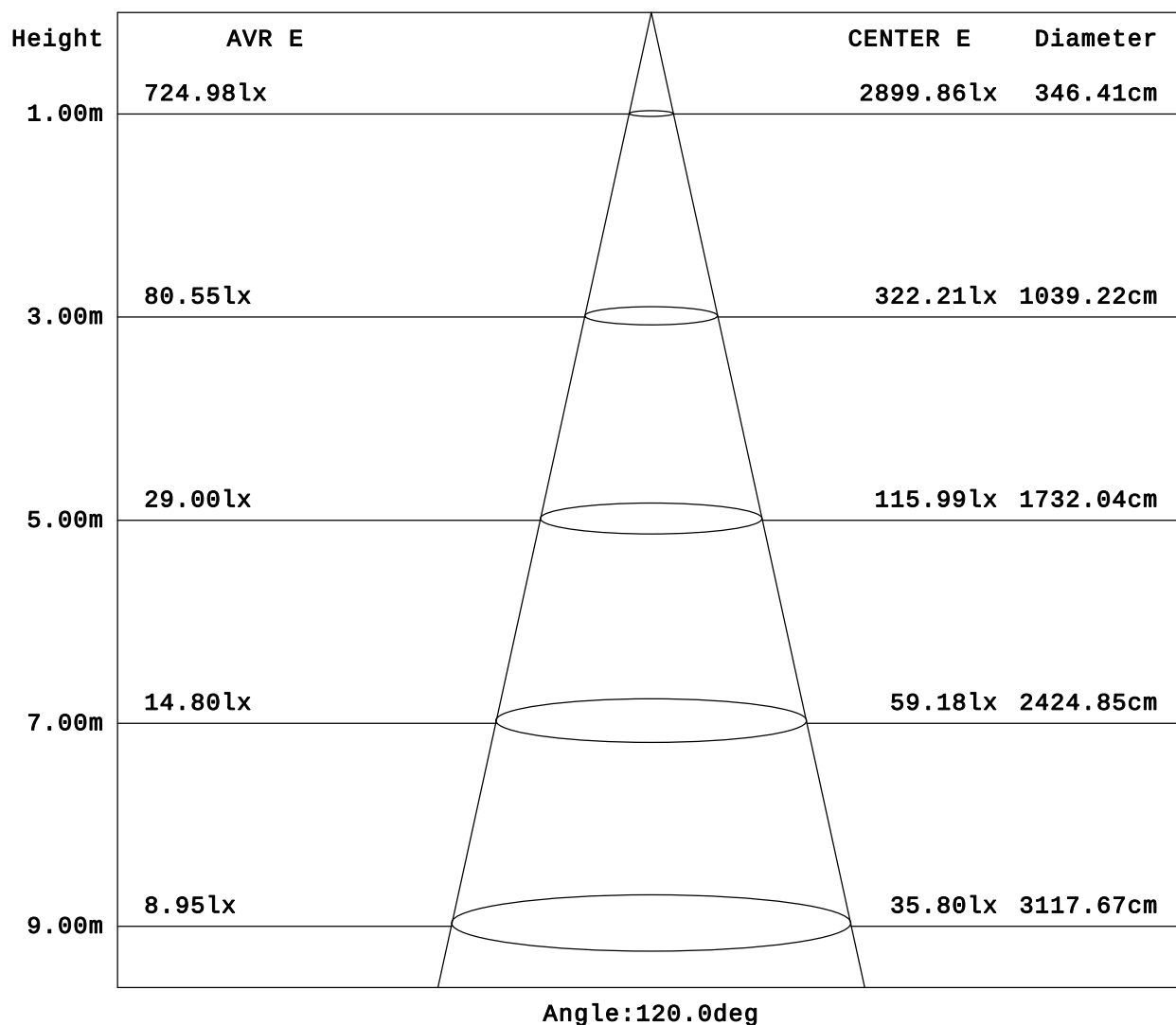
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.200 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
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SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



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ZONAL FLUX DIAGRAM

Report number:

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NAME: CES-EX-GB--02-80		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	2787	2809	2881	2824	2859	2884	2832	2841	0- 5	68.38	68.38
10.0	2719	2737	2792	2780	2838	2799	2785	2808	5- 10	201.0	269.4
15.0	2779	2795	2756	2783	2761	2756	2699	2721	10- 15	328.0	597.5
20.0	2771	2780	2834	2800	2683	2697	2633	2667	15- 20	453.1	1051
25.0	2675	2699	2745	2716	2614	2611	2536	2577	20- 25	565.7	1616
30.0	2617	2637	2626	2625	2472	2474	2371	2428	25- 30	655.6	2272
35.0	2512	2514	2564	2535	2322	2329	2205	2241	30- 35	727.5	3000
40.0	2414	2420	2463	2418	2154	2150	1949	1983	35- 40	775.0	3775
45.0	2251	2305	2352	2310	1893	1891	1699	1730	40- 45	795.9	4570
50.0	2130	2137	2252	2188	1640	1627	1458	1479	45- 50	789.2	5360
55.0	1956	1953	2098	2044	1373	1370	1182	1201	50- 55	764.4	6124
60.0	1735	1742	1937	1896	1092	1086	866.1	873.8	55- 60	705.8	6830
65.0	1496	1491	1684	1655	783.6	785.7	552.3	544.3	60- 65	612.7	7443
70.0	1271	1266	1444	1426	451.5	474.7	280.7	265.6	65- 70	500.4	7943
75.0	1028	1028	1223	1203	212.8	232.5	136.4	114.6	70- 75	390.9	8334
80.0	744.5	738.4	955.8	962.2	744.5	444.0	498.8	576.3	75- 80	361.0	8695
85.0	466.6	457.5	677.7	682.0	466.6	457.5	677.7	682.0	80- 85	347.6	9043
90.0	226.8	229.6	398.3	426.0	226.8	229.6	398.3	426.0	85- 90	241.4	9284
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

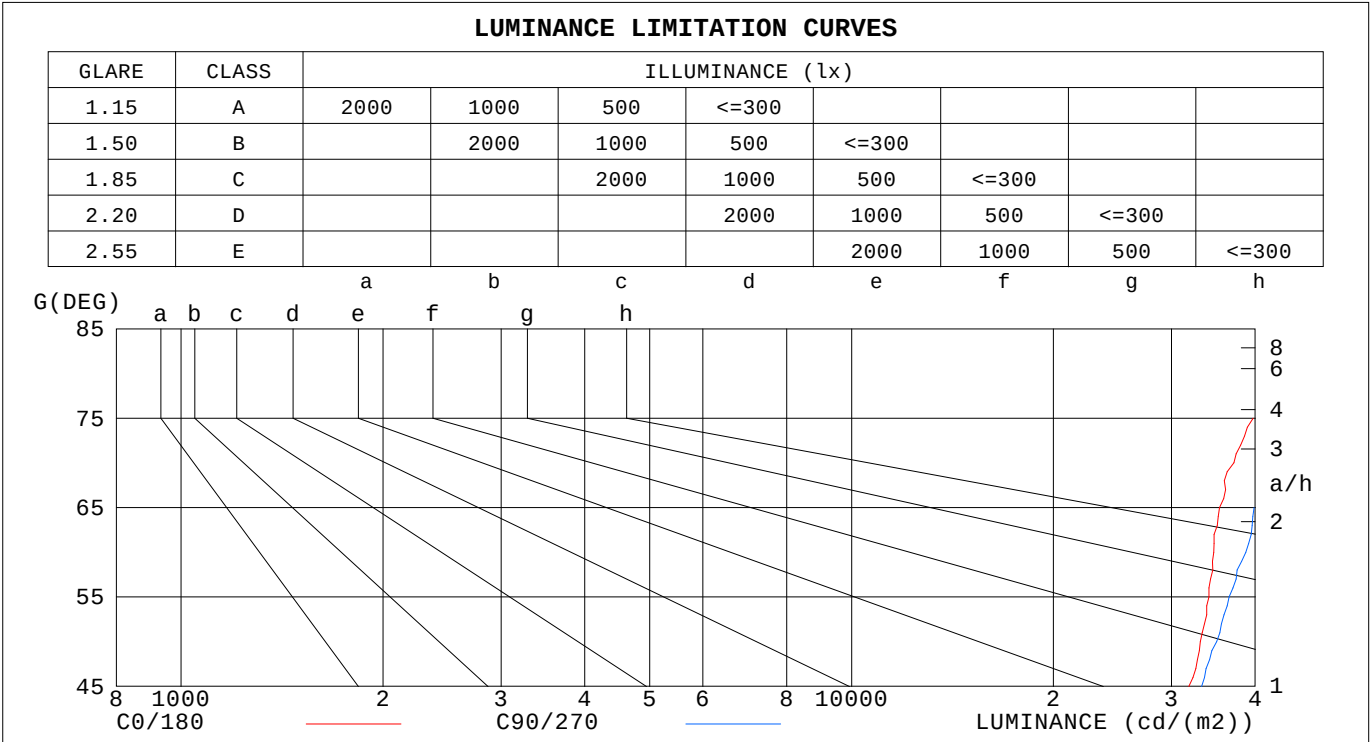
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Temperature:25.3DEG
Operators:
Test Date:

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
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Remarks:

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: CES-EX-GB--02-80		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



LUMINANCE cd/m2		
G(DEG)	C0/180	C90/270
85	53542	77759
80	42877	55043
75	39705	47272
70	37167	42211
65	35389	39854
60	34696	38740
55	34107	36577
50	33139	35038
45	31828	33267

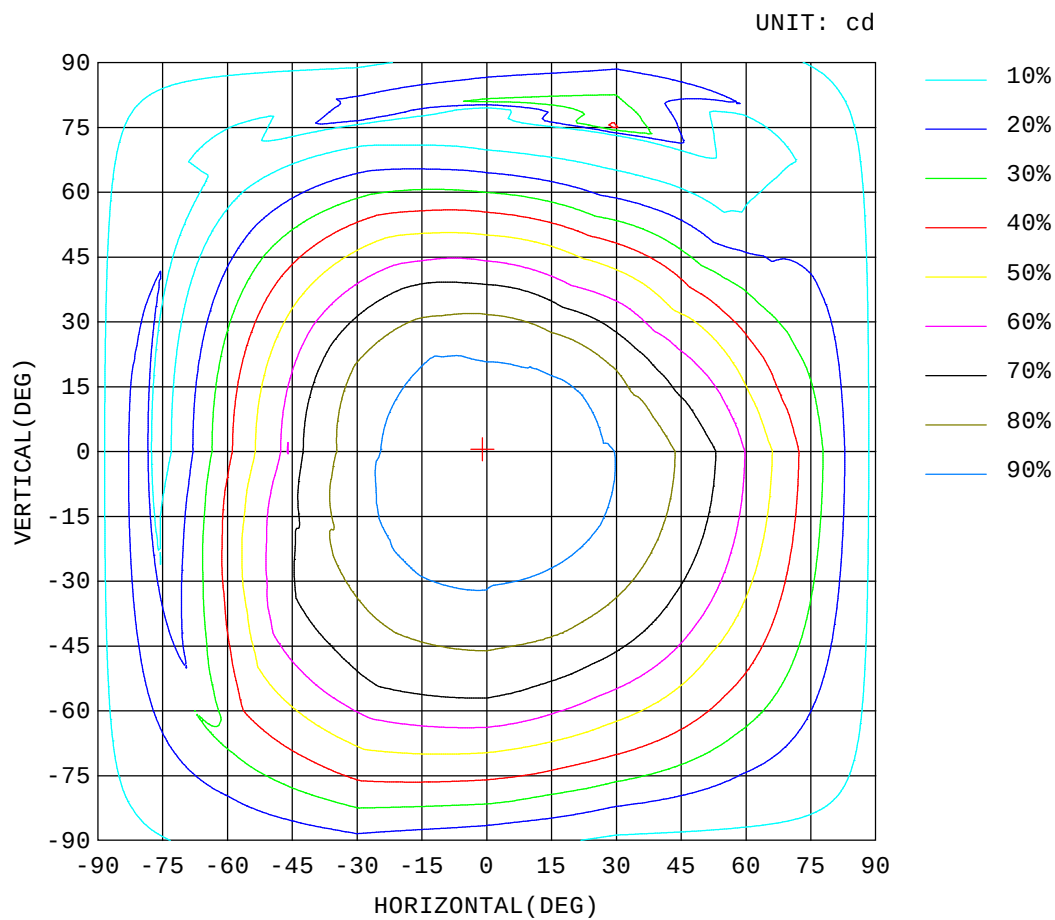
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:

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ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: CES-EX-GB--02-80		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



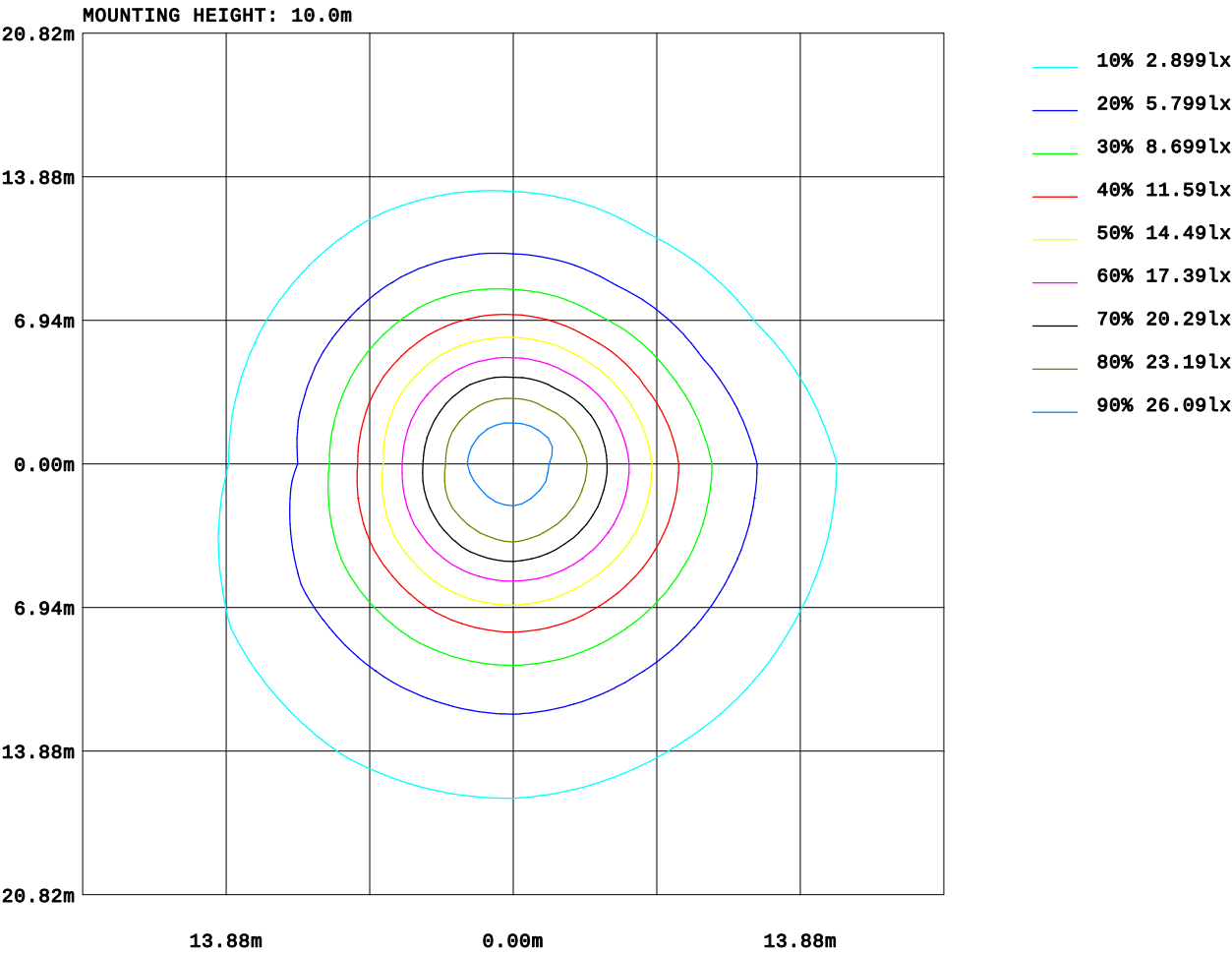
Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.200 m
Remarks:

ISOLUX DIAGRAM

Report number:

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Address:			
NAME: CES-EX-GB--02-80		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 0	DIMENSION:	SERIAL No.:



Test System:HOP00 HPG1800
Temperature:25.3DEG
Operators:
Test Date:

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.200 m
Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:																			
Address:																			
NAME: CES-EX-GB--02-80										TYPE:					WEIGHT:				
SPECIFICATION:					CCT(K): 0					DIMENSION:					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT: lm		Φ t	Φ a				
	0.65	2.18	3.97	6.03	8.42	10.7	13.7	16.7	18.9	20.4	21.0	20.4	16.8	12.0	8.51	5.26	2.64	0.72	190	182						
90	0.79	3.11	5.26	5.36	7.58	9.97	10.2	8.18	6.14	7.05	11.3	16.6	17.0	11.3	4.33	4.19	3.51	0.85	133	103						
80	0.92	3.62	3.31	3.82	7.44	12.0	16.1	17.8	17.7	16.0	13.2	9.37	6.67	4.62	3.21	3.12	3.12	0.98	143	120						
70	1.05	3.60	3.15	8.00	15.6	23.8	31.1	35.2	36.3	34.7	30.3	23.6	17.6	11.2	5.91	4.93	3.37	1.09	291	287						
60	1.17	3.13	4.55	12.9	23.7	34.5	44.1	50.2	52.2	50.5	45.6	38.4	30.2	20.4	12.0	7.52	4.21	1.14	437	436						
50	1.25	2.75	6.56	17.3	30.3	43.5	55.8	64.0	66.8	65.4	59.2	50.5	40.3	28.9	18.7	10.6	5.17	1.21	569	568						
40	1.32	2.66	8.31	20.6	35.3	51.2	64.3	73.0	76.8	75.9	70.8	61.9	49.2	36.4	24.5	13.6	6.15	1.30	674	673						
30	1.40	2.67	9.55	22.8	38.7	55.9	69.2	78.4	82.3	81.5	77.9	69.3	56.7	42.6	29.1	16.3	7.08	1.38	743	743						
	1.46	2.71	10.1	24.0	40.5	57.6	71.4	80.7	85.8	85.2	80.9	73.1	61.1	47.2	32.6	18.5	7.90	1.45	783	782						
	1.48	3.02	10.9	25.2	41.7	58.5	72.3	81.3	85.2	84.5	81.5	73.9	62.5	48.9	33.9	19.3	8.20	1.47	794	794						
	1.46	3.59	11.8	26.6	42.9	58.8	72.1	81.3	84.3	84.5	81.0	72.7	61.3	47.8	33.0	18.7	7.99	1.44	792	792						
-30	1.41	4.14	12.0	27.0	43.3	57.8	69.6	78.3	82.8	82.4	77.5	69.6	58.9	45.6	31.1	17.7	7.57	1.37	769	769						
-40	1.33	4.69	11.8	26.3	42.5	55.3	65.8	73.5	77.4	77.0	72.5	65.2	54.8	42.0	28.3	16.3	6.98	1.28	724	724						
-50	1.23	5.32	11.3	24.6	39.2	51.3	61.0	67.7	70.9	70.5	66.4	59.0	49.1	36.9	24.8	14.5	6.19	1.17	662	662						
-60	1.11	5.63	10.8	22.2	33.7	45.4	55.2	60.7	63.5	62.6	57.9	50.3	41.0	30.8	21.0	12.2	5.24	1.05	581	581						
-70	0.98	4.73	10.6	18.6	27.8	37.0	44.8	49.3	51.4	50.1	45.7	39.3	32.2	24.4	16.4	9.54	4.17	0.92	469	468						
-80	0.85	3.65	8.12	14.0	21.0	28.1	33.5	36.1	37.0	35.7	32.3	27.4	22.1	16.6	11.1	6.55	3.11	0.79	338	338						
-90	0.72	2.64	5.26	8.73	13.0	17.5	20.4	21.2	20.9	19.5	16.8	13.7	10.8	8.43	6.03	3.97	2.18	0.65	193	186						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)										20	30	40	50	60	70	80	90
Φ t	20.6	63.9	148	315	513	710	871	975	1017	1004	943	835	689	517	345	203	94.8	20.3	9284							
Φ a	18.3	57.8	141	308	509	706	868	971	1013	999	939	831	684	512	338	199	93.3	18.0				9190				

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 Operators:
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 Remarks:

UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: CES-EX-GB--02-80					TYPE:			WEIGHT:			
SPECIFICATION:		CCT(K): 0			DIMENSION:			SERIAL No.:			
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	25.6	27.2	25.9	27.4	27.6	26.0	27.6	26.3	27.8	28.0	
	3H	27.6	29.1	27.9	29.4	29.6	28.2	29.6	28.5	29.9	
	4H	28.6	30.0	28.9	30.3	30.5	29.3	30.7	29.6	30.9	
	6H	29.5	30.8	29.8	31.1	31.4	30.3	31.7	30.7	31.9	
	8H	29.9	31.2	30.2	31.5	31.8	30.8	32.1	31.2	32.4	
	12H	30.2	31.5	30.6	31.8	32.1	31.4	32.6	31.7	32.9	
4H	2H	26.4	27.8	26.7	28.1	28.3	26.7	28.1	27.0	28.3	
	3H	28.6	29.8	28.9	30.1	30.4	29.0	30.3	29.4	30.6	
	4H	29.7	30.9	30.1	31.2	31.5	30.3	31.4	30.6	31.7	
	6H	30.7	31.8	31.1	32.1	32.5	31.5	32.5	31.9	32.9	
	8H	31.2	32.2	31.6	32.5	32.9	32.1	33.1	32.5	33.4	
	12H	31.6	32.5	32.1	32.9	33.3	32.7	33.6	33.2	34.0	
8H	4H	30.2	31.1	30.6	31.5	31.9	30.6	31.6	31.1	32.0	
	6H	31.4	32.2	31.8	32.6	33.1	32.1	32.9	32.5	33.3	
	8H	32.0	32.7	32.5	33.1	33.6	32.8	33.5	33.3	34.0	
	12H	32.6	33.2	33.0	33.7	34.1	33.6	34.2	34.1	34.7	
12H	4H	30.2	31.1	30.7	31.5	31.9	30.7	31.6	31.1	32.0	
	6H	31.6	32.3	32.0	32.7	33.2	32.2	32.9	32.6	33.3	
	8H	32.2	32.8	32.7	33.3	33.8	33.0	33.6	33.4	34.1	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 9284 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.7)

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