

astro

PHOTOMETRIC
TEST REPORT

Flux test report

Product Remark

Type:5752

Temperature:Tx=34.7°C Ti=35.0°C

Operator:

Manufacturer:Astro

Humidity:65%

Test Time:2017-07-31 18:27

CIE Color Parameter

Chromaticity Coordinate: x=0.4394 y=0.4098

u=0.2497 v=0.3493

CCT: Tc= 3005K

Ratio: R=0.246 G=0.730 B=0.023 Peak Wave: 605nm Half Width: 133.9nm

Dominant WL.: 583.2nm Purity: 0.549

Rending Index: Ra= 83.4

R1 =82	R2 =91	R3 =97	R4 =81	R5 =81	R6 =89	R7 =84	R8 =62
R9 =12	R10=79	R11=80	R12=69	R13=84	R14=99	R15=75	

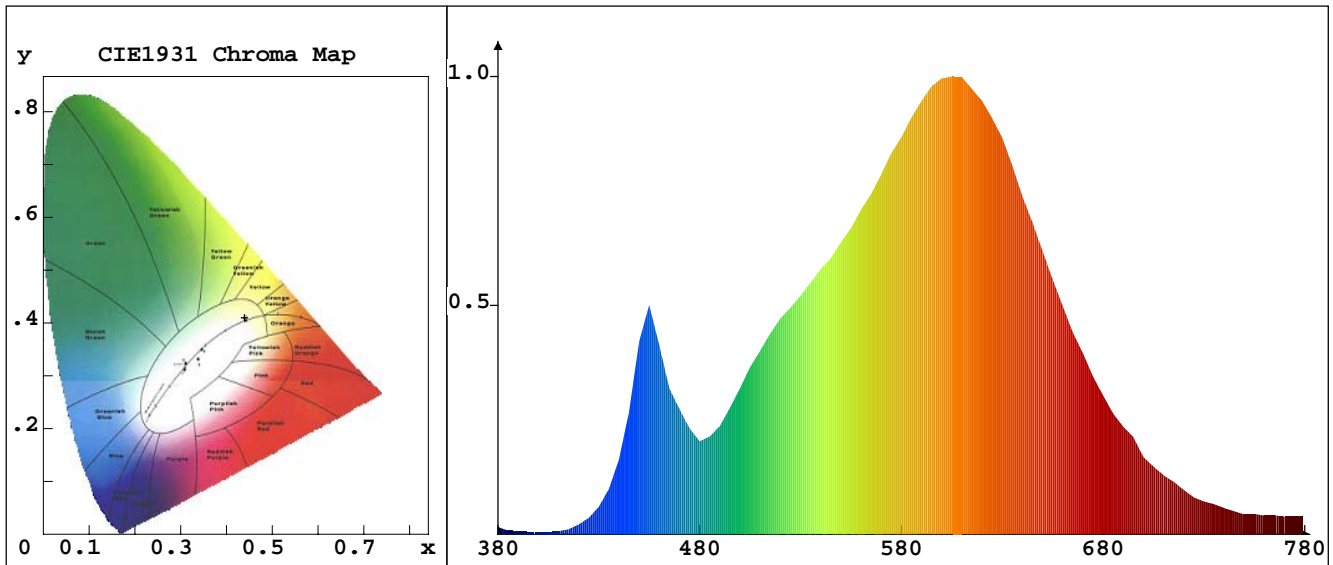


Photo Parameter

Luminous Flux: 680.9 lm

Light Efficiency: 111.6 lm/W

Radiant Power: 2.092 W

Electrical Parameter

Voltage:U= 17.5V Current:I=0.350A Power:P= 6.1W Power Factor: Pf=1.000

Instrument Status

Scan Range: 380nm-780nm

Main: 4

Reference: 2

Interval: 5nm

Id: 18

REF: 3583

PMT HV: -580V

Ip: 25388

%; -0.527%

Report No.:

Test Time: 2017-05-25 08:32

Luminaire Property

Luminaire Category: LED RECESSED LIGHT
Luminaire Manufacturer: ASTRO
Lamp Description: CXA1512-3000K
Lumens per Lamp: 829
Luminous Width (mm): -90
Voltage: 17.4 V
Power: 5.90 W

Luminaire Description: 5752
Lamp Catalog: LED
Number of Lamps: 1
Luminous Length (mm): -90
Luminous Height (mm): 28
Current: 0.341 A
Power Factor: 1.000

Photometric Results

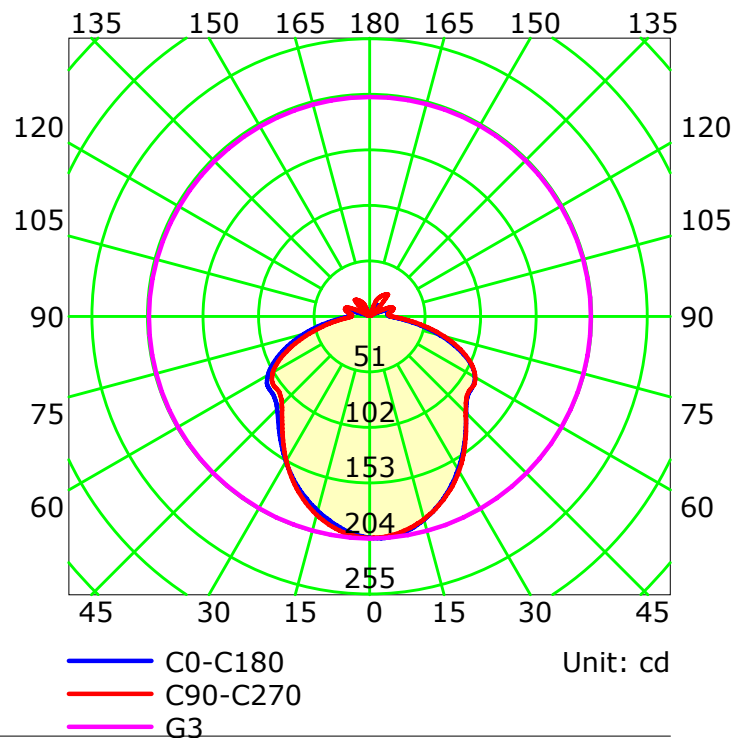
CIE Class: Semi-Direct
Measurement Flux: 706.5 lm
Downward Ratio: 76.31%
Luminaire Efficacy Rating (LER): 120
Max. Intensity: 204.04 cd

Total Rated Lamp Lumens: 829.0 lm
Efficiency: 85.23%
Upward Ratio: 8.92%
Central Intensity: 203.19 cd
Pos of Max. Intensity: H0 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



Test Lab: ASTRO
Test Type: TYPE C
Temperature: 25
Operator:

Test Device: GPM-1800
Distance: 10.098 m
Humidity: 52
Inspector:

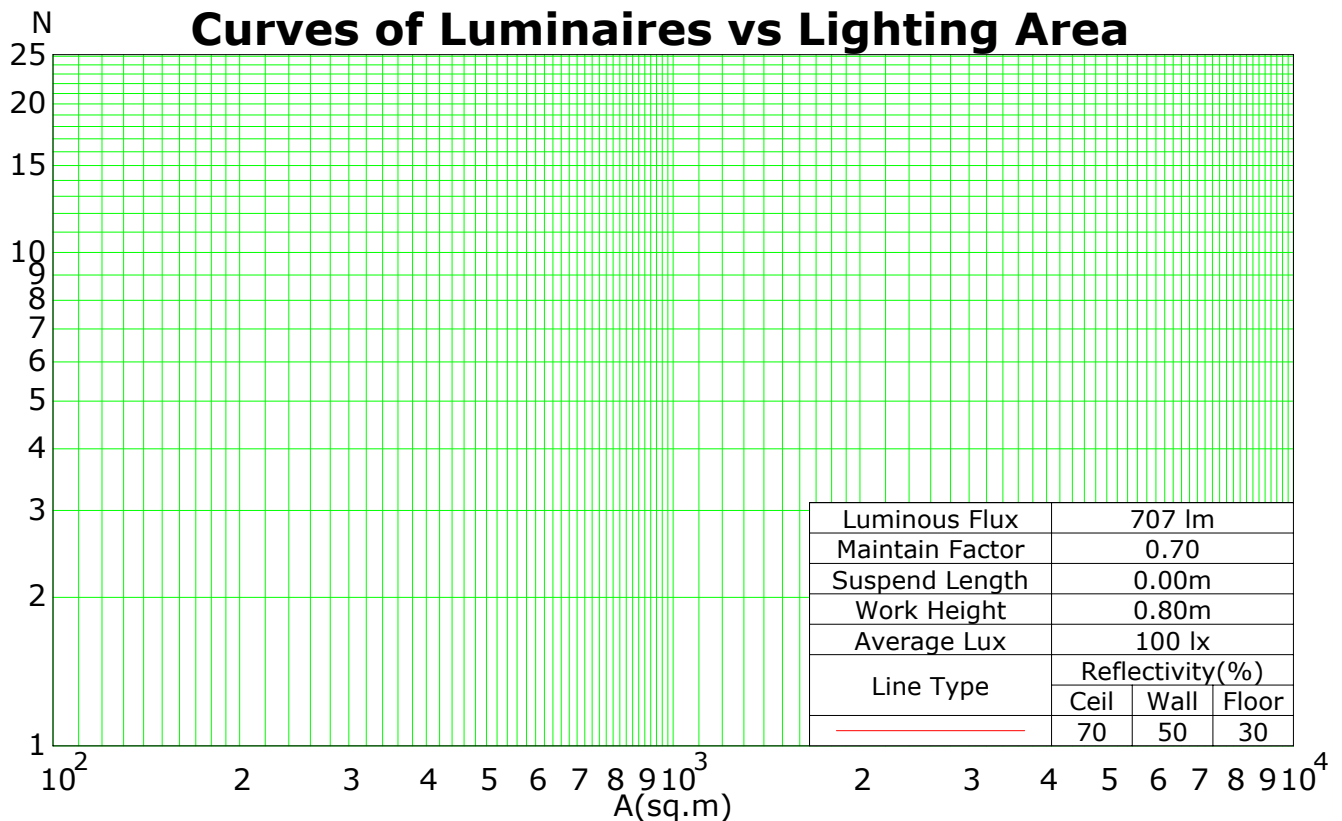
Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	99	99	99	99	96	96	96	96	90	90	90	84	84	84	79	79	79	76
1	89	84	80	76	86	81	78	74	76	73	70	71	69	66	67	65	63	60
2	80	72	66	60	77	70	64	59	65	61	56	61	57	54	57	54	51	49
3	73	63	55	49	70	61	54	48	57	51	46	53	48	44	50	46	42	40
4	66	55	47	41	63	54	46	40	50	44	39	47	42	37	44	40	36	34
5	61	49	41	35	58	48	40	35	45	38	33	42	37	32	40	35	31	29
6	56	44	36	30	54	43	35	30	40	34	29	38	32	28	36	31	27	25
7	52	40	32	27	50	39	31	26	37	30	26	35	29	25	33	28	24	22
8	48	36	29	24	46	35	28	23	33	27	23	32	26	22	30	25	21	20
9	45	33	26	21	43	32	26	21	31	25	20	29	24	20	28	23	19	18
10	42	31	24	19	41	30	23	19	28	23	19	27	22	18	26	21	18	16

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.17

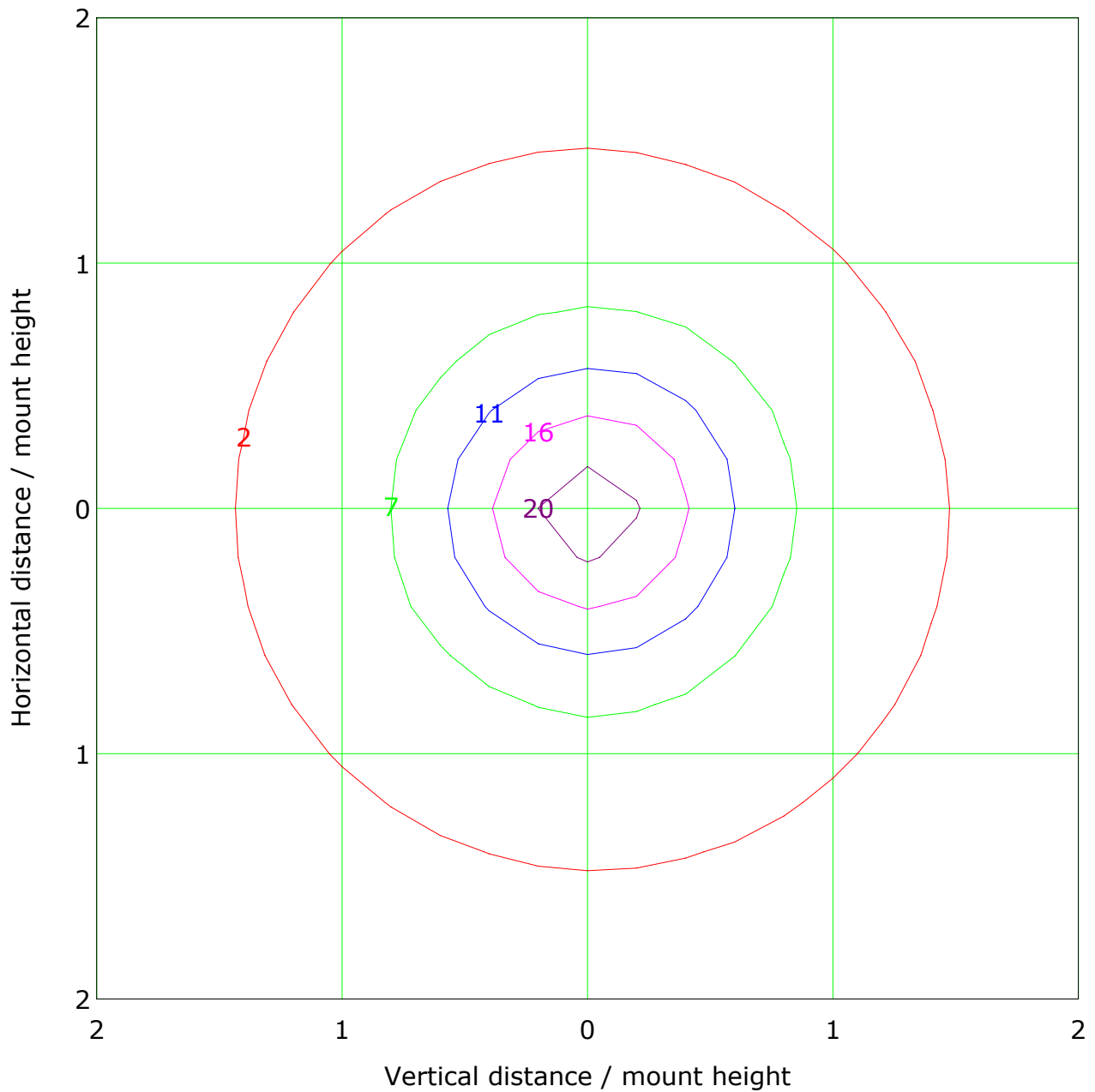
Spacing Criteria (Diagonal): 1.30



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IsoLux Plot

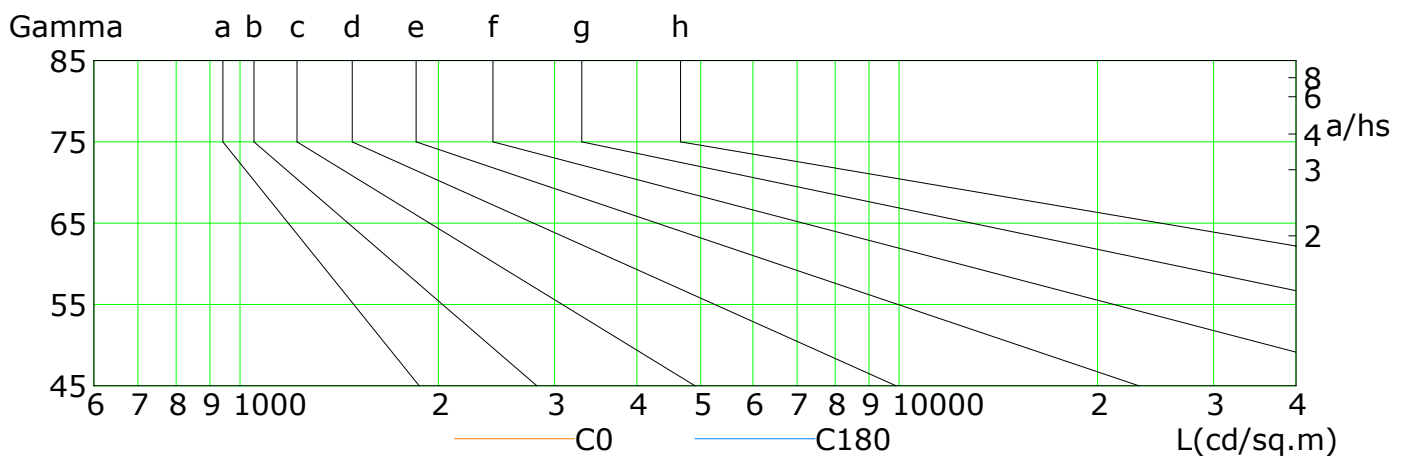
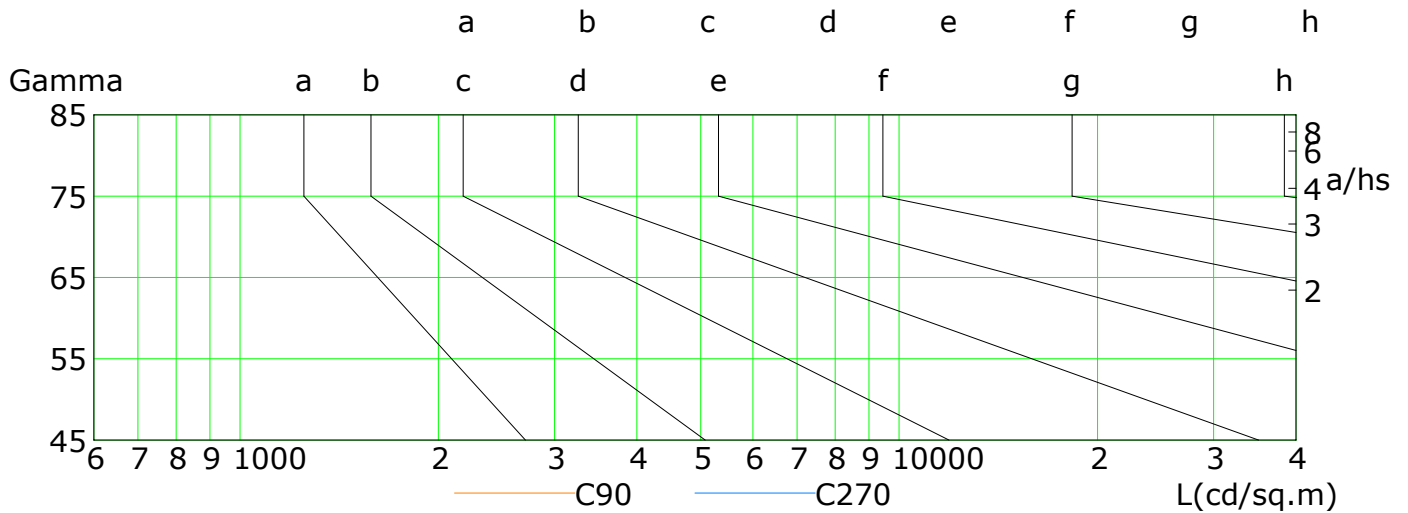


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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

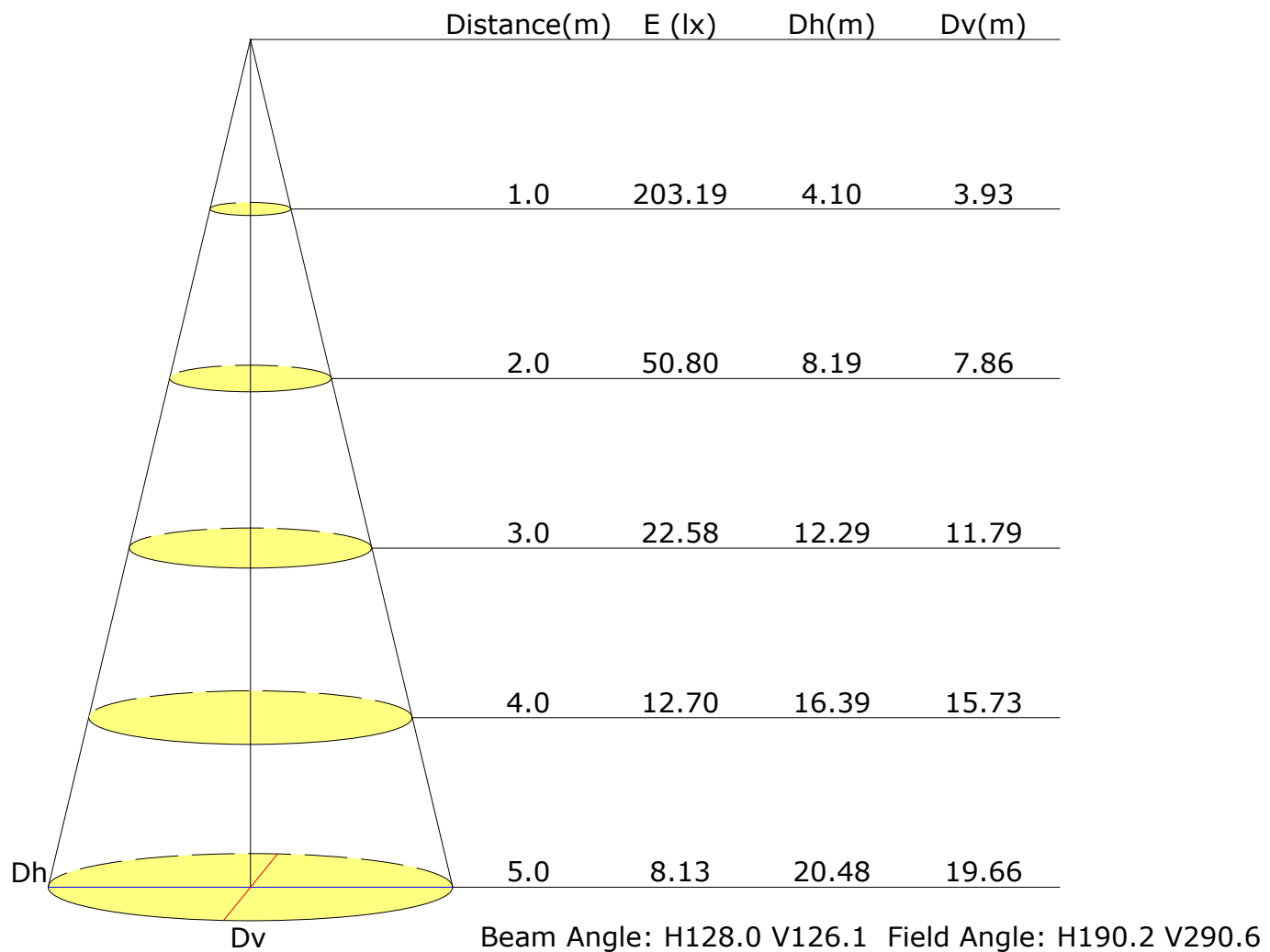


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	125	117	115	112	102	86	67	47	30
C90	125	116	114	112	103	89	71	51	33
C180	120	115	114	108	96	80	62	45	29
C270	114	108	108	103	90	73	54	37	24

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Illuminance at a Distance



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