



Report No.: 1

Test Time: 2017-05-30 11:39

Luminaire Property

Luminaire Manufacturer:
 Luminaire Category: LED STREET LIGHT
 Lumens per Lamp: 4808
 Luminous Width (mm): 150
 Voltage: 220.5 V
 Power: 47.70

Luminaire Description: DIANID LTD.
 Luminous Length (mm): 470
 Luminous Height (mm): 50
 Current: 0.224 A
 Power Factor: 0.965

Photometric Results

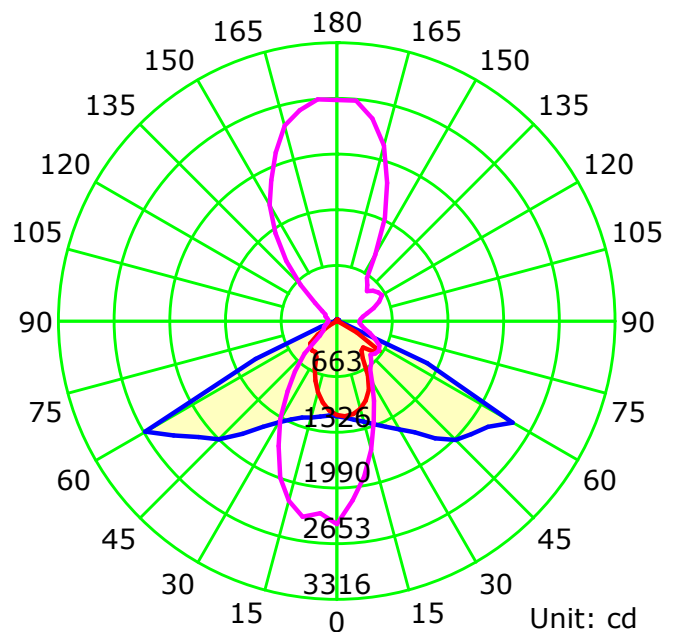
CIE Class: Direct
 Measurement Flux: 3837 lm
 Downward Ratio: 98%
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 138.8, 123.0, 132.2, 131.6
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 128.7, 83.0, 116.8, 117.0
 Luminaire Efficacy Rating (LER): 80.49
 Max. Intensity: 2653.36 cd
 S/MH(C0/C180): 2.38

Total Rated Lamp Lumens: 3837.0 lm
 Efficiency: 100%
 Upward Ratio: 2%
 Central Intensity: 1132.49 cd
 Pos of Max. Intensity: H185 V60
 S/MH(C90/C270): 0.95

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G60

C Plane (°):0.0-360.0: 5.0
 Test Lab: DIANID LABORATORY
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:5.0
 Test Device: LSG-1700B
 Distance: 8.472 m
 Humidity:
 Inspector:

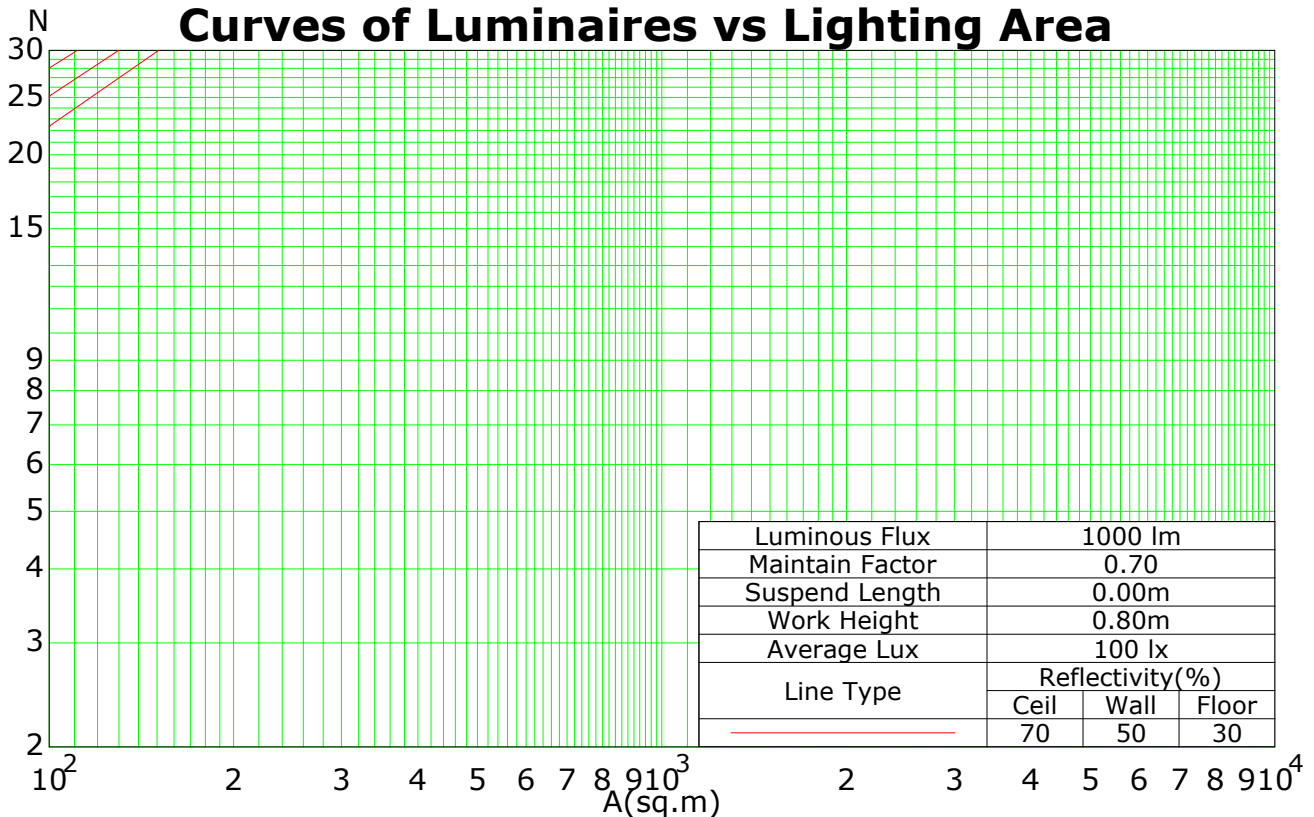


Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	110	105	102	98	107	103	100	96	99	96	93	94	92	90	91	89	87	85
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	71
3	91	81	73	67	88	79	72	66	76	70	65	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	58	54	62	57	53	51
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	51	45	40	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 2.38
 Spacing Criteria (90-270): 0.95
 Spacing Criteria (Diagonal): 1.55

Curves of Luminaires vs Lighting Area

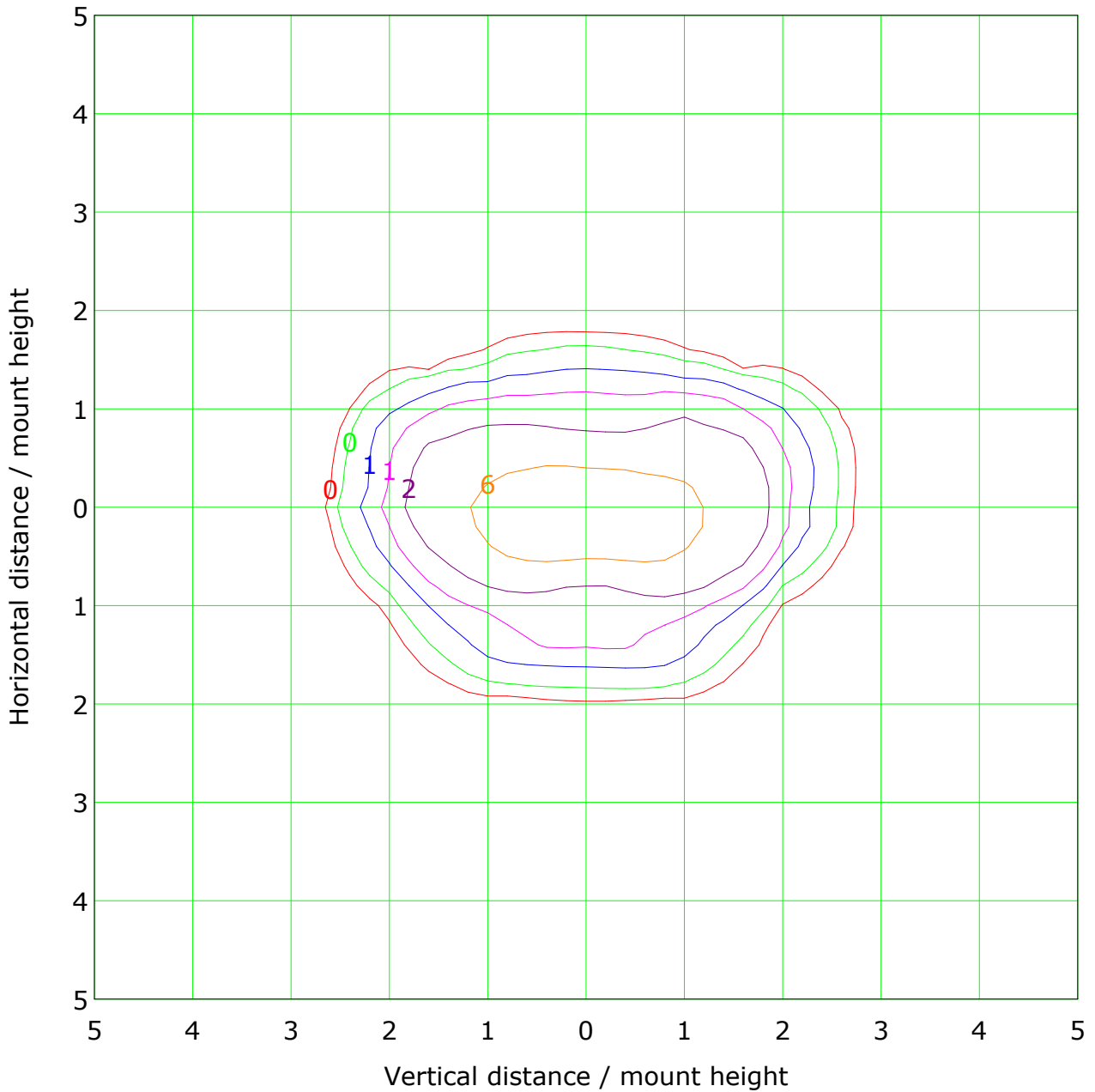


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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 11.4 lx	
— (1%):	0.1 lx	— (2%):	0.2 lx
— (5%):	0.6 lx	— (10%):	1.1 lx
— (20%):	2.3 lx	— (50%):	5.7 lx
— (100%):	11.4 lx		

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Test Type: TYPE C
Temperature: 25
Operator:

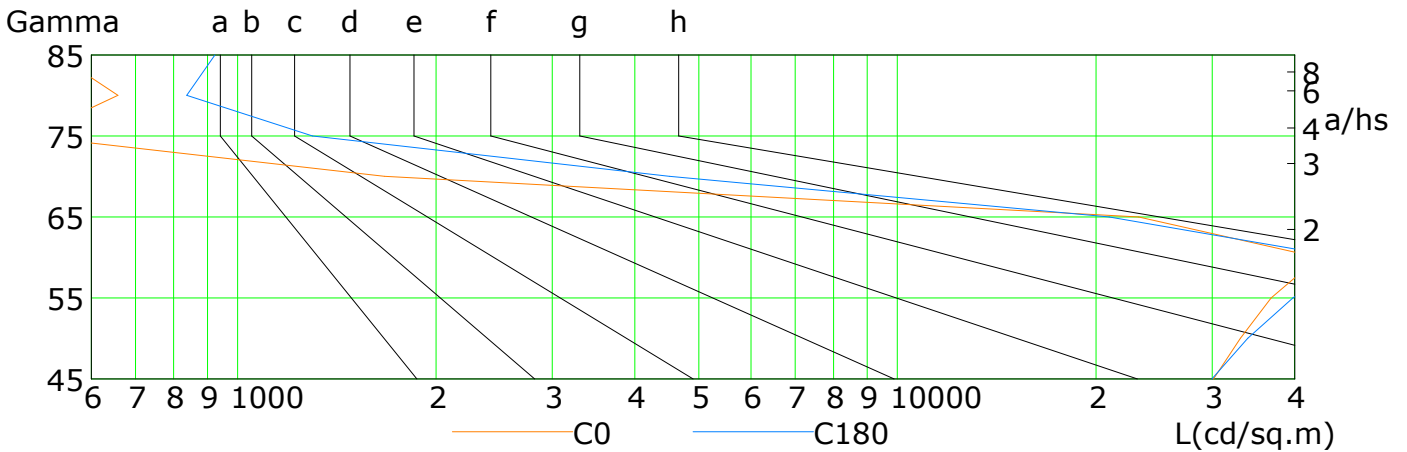
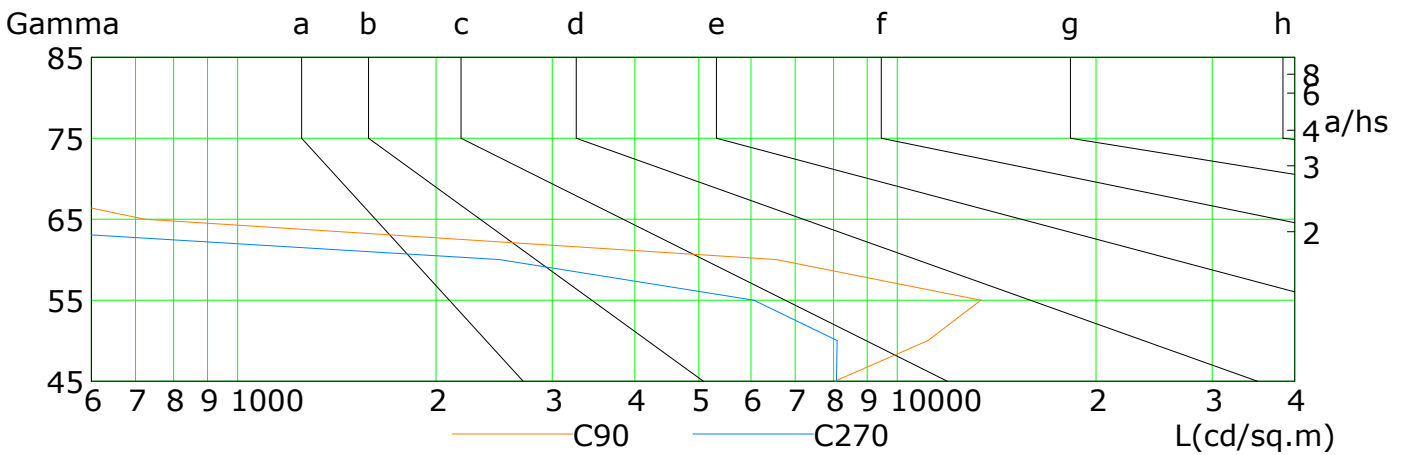
Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1700B
Distance: 8.472 m
Humidity:
Inspector:



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

a b c d e f g h

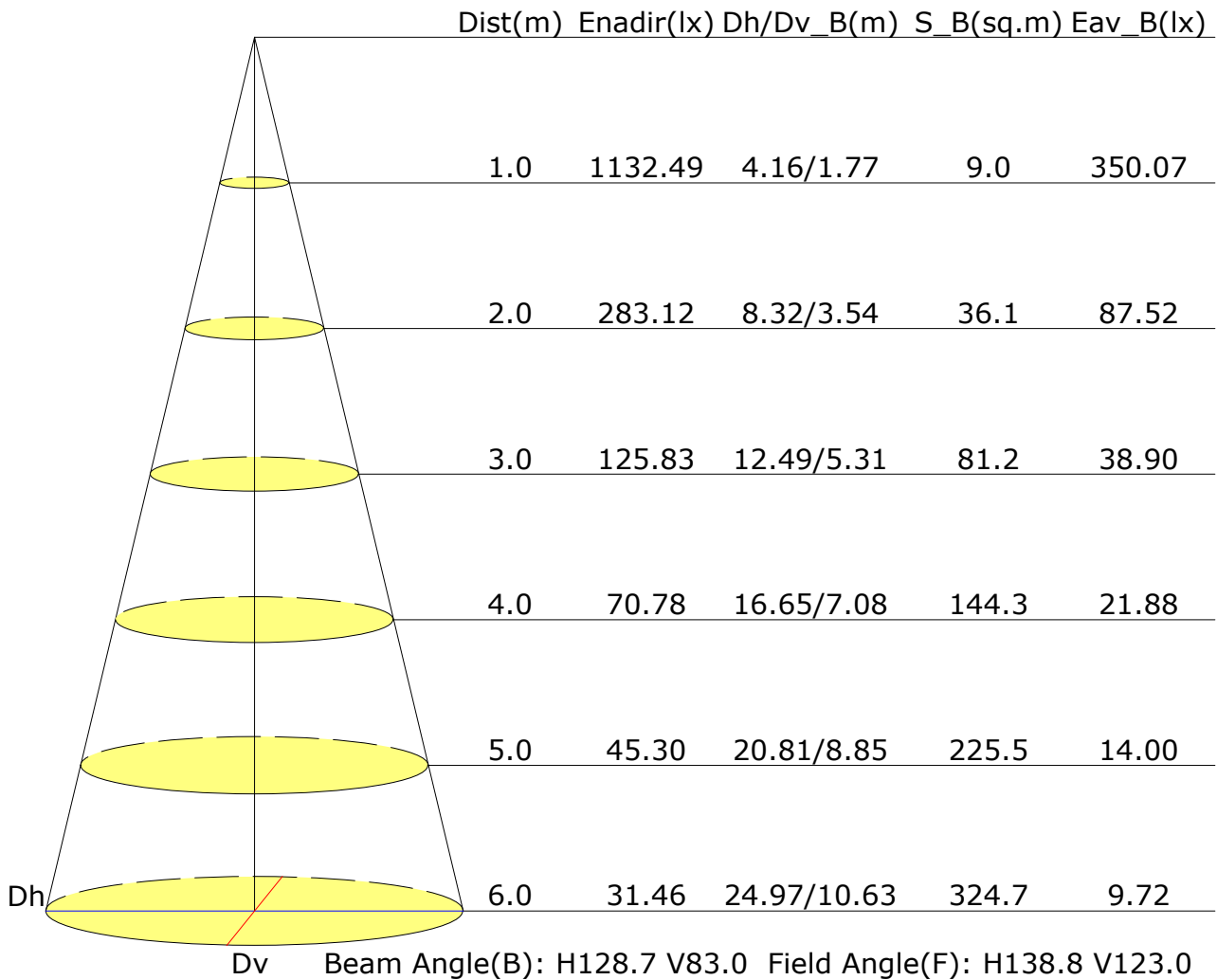


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	30144	33087	36831	43487	23217	1670	486	659	533
C90	8040	11126	13379	6555	723	372	193	71	33
C180	29959	33969	39768	47424	20938	4515	1299	837	924
C270	8088	8106	6063	2494	248	130	106	82	66

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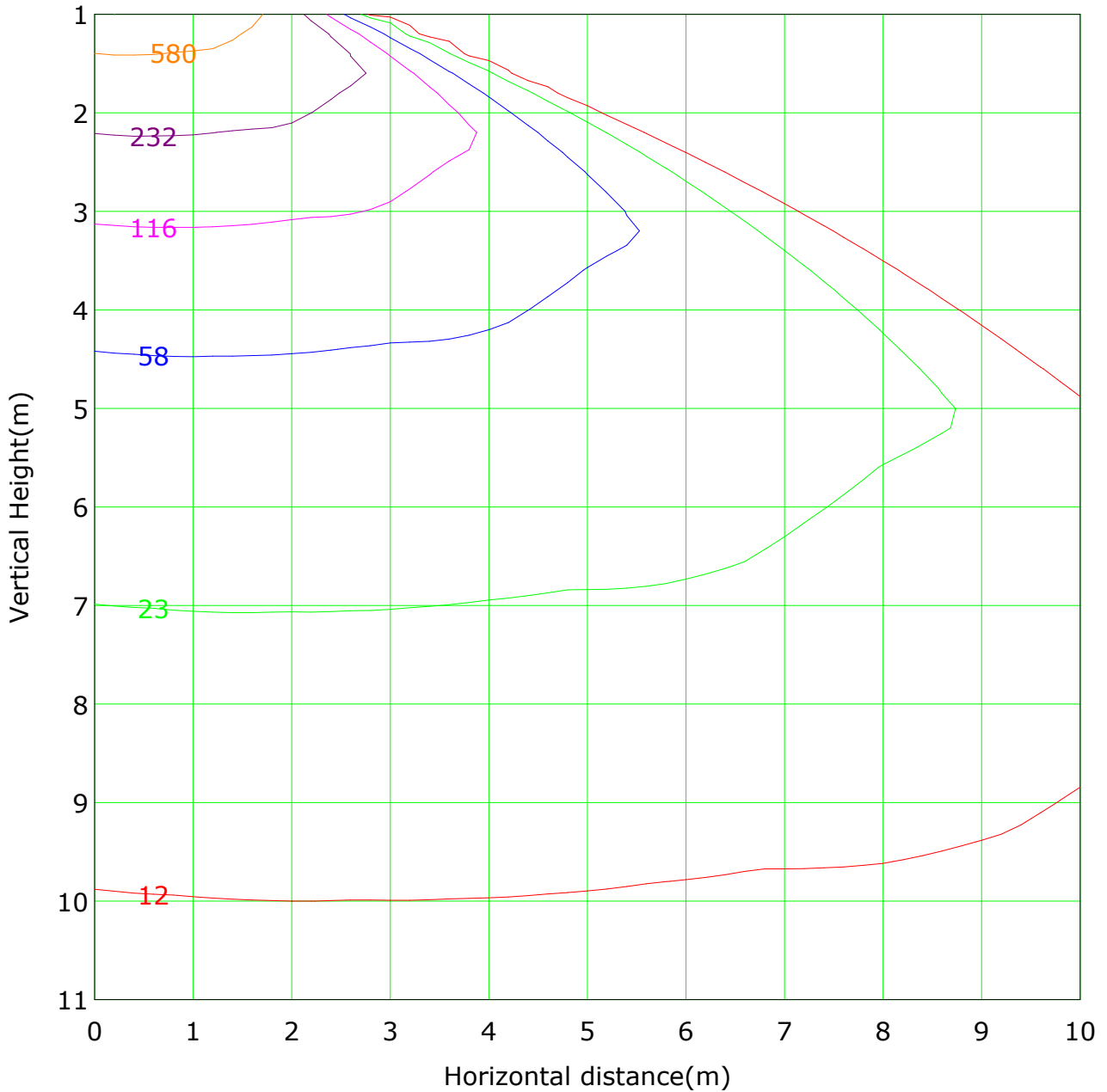
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 Test Device: LSG-1700B
 Distance: 8.472 m
 Humidity:
 Inspector:

Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1160.3 lx
— (1%): 11.6 lx — (2%): 23.2 lx
— (5%): 58.0 lx — (10%): 116.0 lx
— (20%): 232.1 lx — (50%): 580.2 lx
— (100%):1160.3 lx

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