

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P799744

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C45D010 EU6459035 6LBMDSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

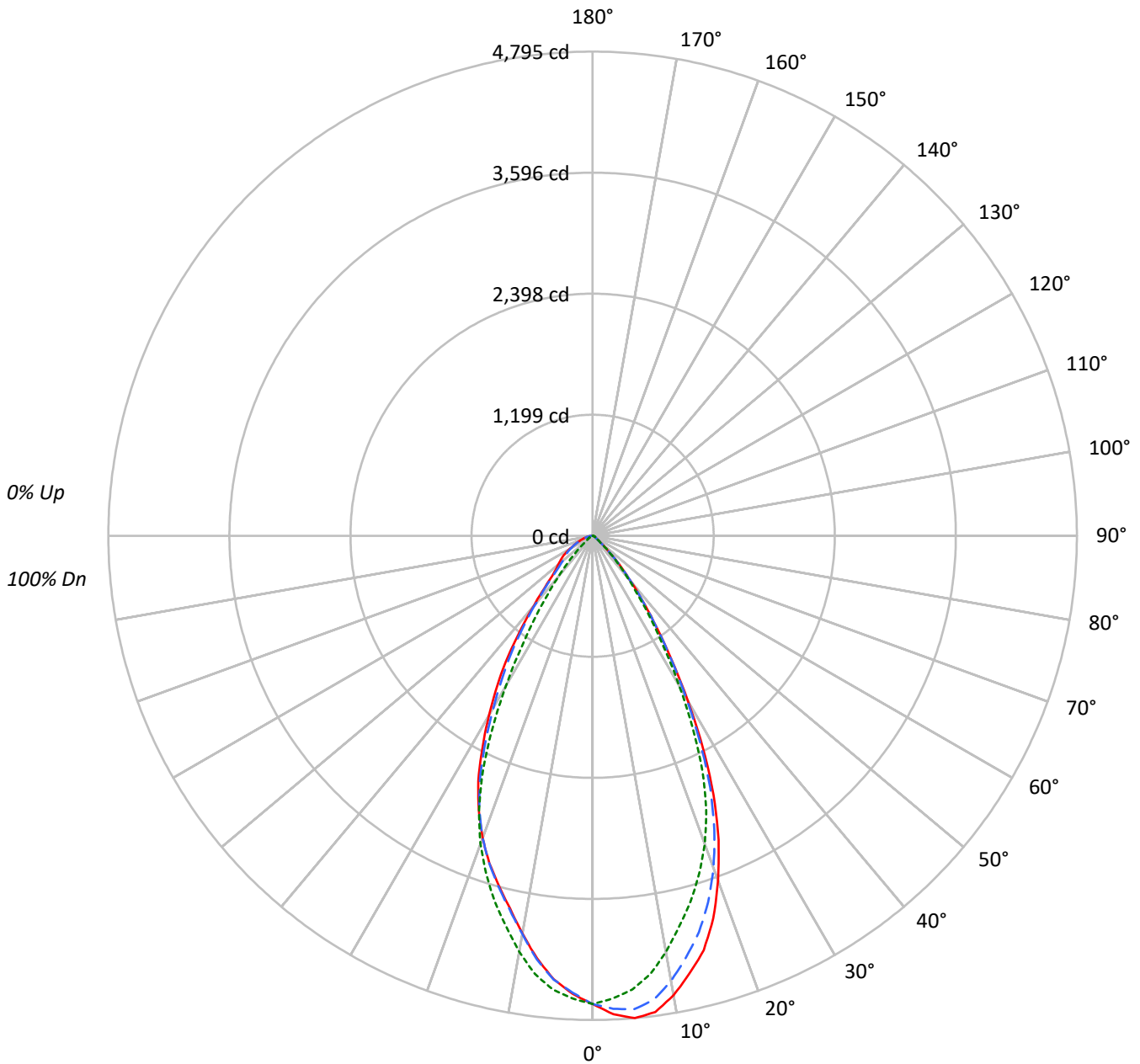
Lumens per Lamp: N/A
Luminaire Lumens: 3992.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78																
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73			73																
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67																
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63																
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59			59																
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55			55																
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52			52																
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49			49																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	254185	254185	254185
5°	263850	248216	242603
10°	257104	232828	222586
15°	241125	212742	203548
20°	211681	189396	185779
25°	171203	155598	162009
30°	119025	108384	129659
35°	73361	66394	97855
40°	41513	37220	64986
45°	20157	19227	44353
50°	7676	7676	37705
55°	4205	4970	34799
60°	3070	3947	28506
65°	2594	3373	23349
70°	2244	2885	19234
75°	2118	2965	16521
80°	1263	2526	11996
85°	1258	5032	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	10.6
10°-20°	1066.9	26.7
20°-30°	1201.0	30.1
30°-40°	743.7	18.6
40°-50°	296.2	7.4
50°-60°	134.8	3.4
60°-70°	77.5	1.9
70°-80°	36.8	0.9
80°-90°	10.7	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2692.3	67.4
0°-40°	3436.0	86.1
0°-60°	3866.9	96.9
0°-90°	3992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4637	4637	4637	4637	4637	
5°	4795	4707	4511	4413	4409	452
15°	4249	4065	3748	3596	3586	1175
25°	2830	2754	2572	2636	2678	1272
35°	1096	1090	992	1382	1462	704
45°	260	260	248	540	572	220
55°	44	42	52	320	364	44
65°	20	18	26	178	180	20
75°	10	10	14	76	78	10
85°	2	2	8	18	18	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4636.7	4636.7	4636.7	4636.7	4636.7	4636.7	4636.7	4636.7	4636.7
2.5°	4742.7	4698.7	4688.7	4650.7	4586.7	4550.6	4528.6	4512.6	4540.6
5°	4794.7	4746.7	4706.7	4628.7	4510.6	4444.6	4412.6	4386.6	4408.6
7.5°	4756.7	4688.7	4634.7	4526.6	4376.6	4274.6	4230.6	4200.6	4220.6
10°	4618.7	4536.6	4474.6	4346.6	4182.6	4060.6	4006.6	3978.6	3998.6
12.5°	4438.6	4370.6	4276.6	4136.6	3960.6	3832.5	3792.5	3770.5	3778.5
15°	4248.6	4168.6	4064.6	3924.6	3748.5	3620.5	3596.5	3582.5	3586.5
17.5°	3972.6	3894.6	3804.5	3668.5	3506.5	3402.5	3402.5	3392.5	3398.5
20°	3628.5	3586.5	3498.5	3384.5	3246.5	3152.4	3182.5	3172.4	3184.5
22.5°	3256.5	3224.5	3148.4	3054.4	2938.4	2864.4	2930.4	2928.4	2944.4
25°	2830.4	2806.4	2754.4	2674.4	2572.4	2526.4	2636.4	2636.4	2678.4
27.5°	2360.3	2336.3	2300.3	2232.3	2148.3	2134.3	2296.3	2316.3	2362.3
30°	1880.3	1864.3	1844.3	1782.3	1712.2	1738.2	1962.3	1996.3	2048.3
32.5°	1452.2	1442.2	1436.2	1380.2	1318.2	1404.2	1660.2	1704.2	1756.2
35°	1096.2	1074.2	1090.2	1048.1	992.1	1100.2	1382.2	1420.2	1462.2
37.5°	808.1	792.1	806.1	776.1	726.1	844.1	1110.2	1134.2	1162.2
40°	580.1	566.1	578.1	560.1	520.1	630.1	870.1	896.1	908.1
42.5°	412.1	388.1	400.1	386.1	366.1	474.1	684.1	708.1	712.1
45°	260.0	252.0	260.0	252.0	248.0	352.0	540.1	562.1	572.1
47.5°	158.0	148.0	148.0	144.0	148.0	260.0	446.1	478.1	494.1
50°	90.0	86.0	84.0	82.0	90.0	204.0	386.1	422.1	442.1
52.5°	60.0	58.0	58.0	56.0	66.0	172.0	348.0	380.1	400.1
55°	44.0	42.0	42.0	42.0	52.0	148.0	320.0	346.0	364.1
57.5°	34.0	34.0	34.0	32.0	44.0	126.0	286.0	300.0	314.0
60°	28.0	26.0	26.0	26.0	36.0	108.0	246.0	252.0	260.0
62.5°	22.0	22.0	22.0	22.0	30.0	96.0	212.0	212.0	216.0
65°	20.0	18.0	18.0	18.0	26.0	84.0	178.0	176.0	180.0
67.5°	16.0	16.0	16.0	16.0	22.0	72.0	146.0	144.0	148.0
70°	14.0	14.0	14.0	14.0	18.0	60.0	118.0	116.0	120.0
72.5°	12.0	12.0	12.0	12.0	16.0	50.0	94.0	94.0	96.0
75°	10.0	10.0	10.0	10.0	14.0	38.0	76.0	76.0	78.0
77.5°	8.0	8.0	8.0	8.0	10.0	30.0	58.0	56.0	56.0
80°	4.0	6.0	6.0	6.0	8.0	22.0	42.0	38.0	38.0
82.5°	2.0	4.0	4.0	4.0	8.0	16.0	28.0	26.0	26.0
85°	2.0	2.0	2.0	6.0	8.0	12.0	18.0	18.0	18.0
87.5°	0.0	2.0	4.0	8.0	10.0	10.0	12.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)