

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: P799733

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799733
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 EU6459030 6LBMDSWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

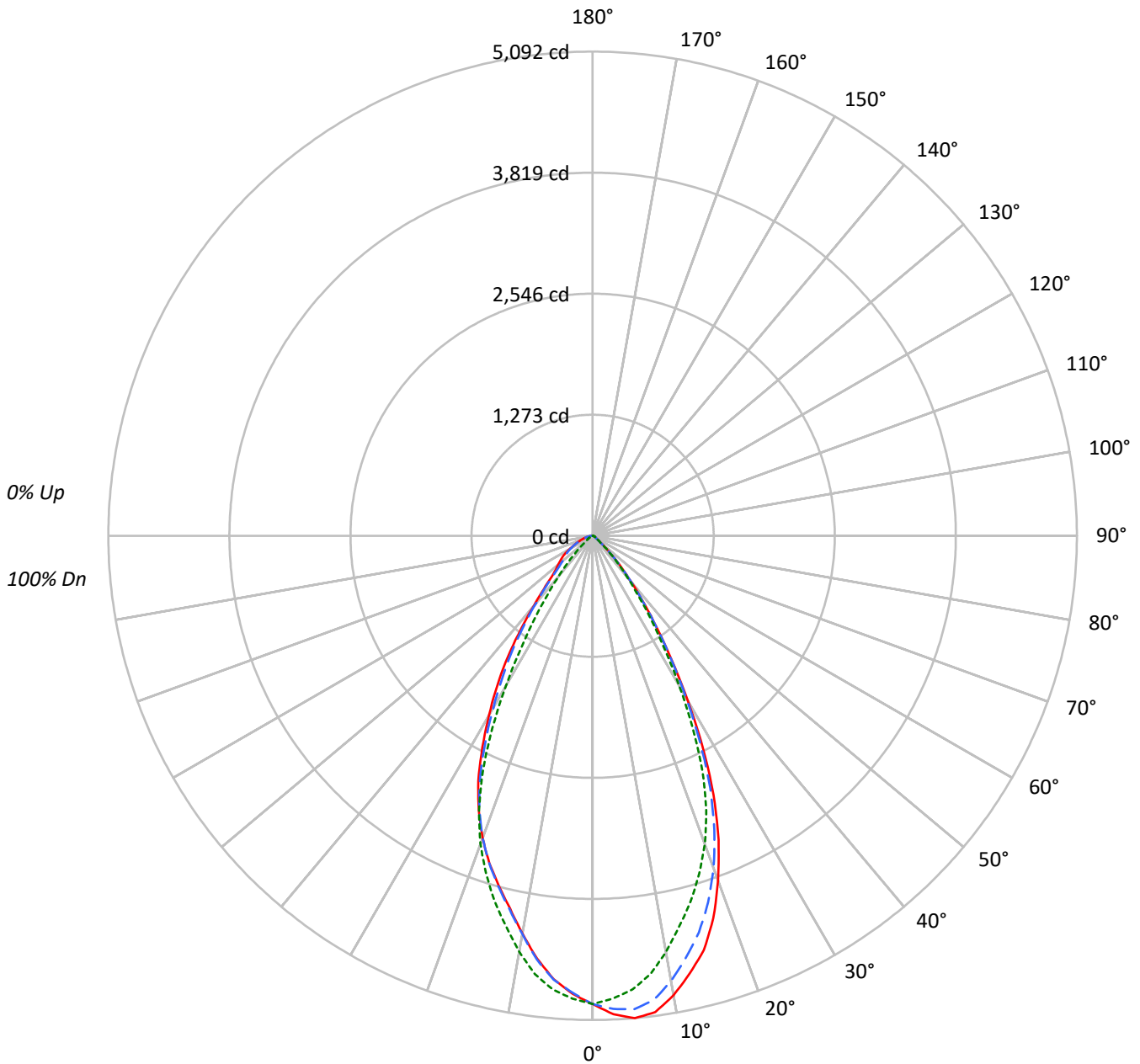
Lumens per Lamp: N/A
Luminaire Lumens: 4240.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799733

CATALOG NUMBER: LD6C45D010 EU6459030 6LBMDSWMW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	269973	269973	269973
5°	280238	263641	257676
10°	273074	247290	236413
15°	256102	225960	216193
20°	224830	201157	197318
25°	181837	165264	172074
30°	126418	115119	137711
35°	77919	70524	103932
40°	44090	39531	69022
45°	21413	20421	47106
50°	8153	8153	40041
55°	4463	5276	36959
60°	3256	4188	30283
65°	2750	3580	24802
70°	2388	3061	20436
75°	2245	3156	17559
80°	1326	2683	12754
85°	1321	5346	12014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.8	10.6
10°-20°	1133.1	26.7
20°-30°	1275.6	30.1
30°-40°	789.9	18.6
40°-50°	314.5	7.4
50°-60°	143.2	3.4
60°-70°	82.3	1.9
70°-80°	39.1	0.9
80°-90°	11.4	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°	2859.6	67.4
0°-40°	3649.4	86.1
0°-60°	4107.2	96.9
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4925	4925	4925	4925	4925	
5°	5092	4999	4791	4687	4682	480
15°	4512	4317	3981	3820	3809	1248
25°	3006	2926	2732	2800	2845	1351
35°	1164	1158	1054	1468	1553	748
45°	276	276	263	574	608	234
55°	47	45	55	340	387	46
65°	21	19	28	189	191	21
75°	11	11	15	81	83	11
85°	2	2	8	19	19	2
90°	0	0	0	0	0	



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CATALOG NUMBER: LD6C45D010 EU6459030 6LBMSWMMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4924.7	4924.7	4924.7	4924.7	4924.7	4924.7	4924.7	4924.7	4924.7
2.5°	5037.3	4990.6	4979.9	4939.6	4871.6	4833.4	4810.0	4793.0	4822.7
5°	5092.5	5041.6	4999.1	4916.2	4790.9	4720.7	4686.8	4659.1	4682.5
7.5°	5052.2	4979.9	4922.6	4807.9	4648.5	4540.2	4493.4	4461.6	4482.8
10°	4905.6	4818.5	4752.6	4616.6	4442.4	4312.8	4255.5	4225.7	4247.0
12.5°	4714.4	4642.1	4542.3	4393.6	4206.6	4070.6	4028.1	4004.8	4013.3
15°	4512.5	4427.6	4317.1	4168.4	3981.4	3845.4	3819.9	3805.1	3809.3
17.5°	4219.4	4136.5	4040.9	3896.4	3724.3	3613.9	3613.9	3603.2	3609.6
20°	3853.9	3809.3	3715.8	3594.7	3448.1	3348.3	3380.2	3369.5	3382.3
22.5°	3458.8	3424.8	3344.0	3244.2	3121.0	3042.4	3112.5	3110.3	3127.3
25°	3006.2	2980.7	2925.5	2840.5	2732.2	2683.3	2800.2	2800.2	2844.8
27.5°	2507.0	2481.5	2443.2	2371.0	2281.8	2266.9	2439.0	2460.2	2509.1
30°	1997.1	1980.1	1958.8	1893.0	1818.6	1846.2	2084.2	2120.3	2175.5
32.5°	1542.4	1531.8	1525.4	1465.9	1400.1	1491.4	1763.4	1810.1	1865.4
35°	1164.3	1140.9	1157.9	1113.3	1053.8	1168.5	1468.1	1508.4	1553.0
37.5°	858.3	841.3	856.2	824.3	771.2	896.6	1179.1	1204.6	1234.4
40°	616.1	601.2	614.0	594.9	552.4	669.2	924.2	951.8	964.5
42.5°	437.7	412.2	424.9	410.0	388.8	503.5	726.6	752.1	756.3
45°	276.2	267.7	276.2	267.7	263.4	373.9	573.6	597.0	607.6
47.5°	167.8	157.2	157.2	153.0	157.2	276.2	473.8	507.8	524.8
50°	95.6	91.4	89.2	87.1	95.6	216.7	410.0	448.3	469.5
52.5°	63.7	61.6	61.6	59.5	70.1	182.7	369.7	403.7	424.9
55°	46.7	44.6	44.6	44.6	55.2	157.2	339.9	367.5	386.7
57.5°	36.1	36.1	36.1	34.0	46.7	133.8	303.8	318.7	333.6
60°	29.7	27.6	27.6	27.6	38.2	114.7	261.3	267.7	276.2
62.5°	23.4	23.4	23.4	23.4	31.9	102.0	225.2	225.2	229.5
65°	21.2	19.1	19.1	19.1	27.6	89.2	189.1	187.0	191.2
67.5°	17.0	17.0	17.0	17.0	23.4	76.5	155.1	153.0	157.2
70°	14.9	14.9	14.9	14.9	19.1	63.7	125.3	123.2	127.5
72.5°	12.7	12.7	12.7	12.7	17.0	53.1	99.9	99.9	102.0
75°	10.6	10.6	10.6	10.6	14.9	40.4	80.7	80.7	82.9
77.5°	8.5	8.5	8.5	8.5	10.6	31.9	61.6	59.5	59.5
80°	4.2	6.4	6.4	6.4	8.5	23.4	44.6	40.4	40.4
82.5°	2.1	4.2	4.2	4.2	8.5	17.0	29.7	27.6	27.6
85°	2.1	2.1	2.1	6.4	8.5	12.7	19.1	19.1	19.1
87.5°	0.0	2.1	4.2	8.5	10.6	10.6	12.7	10.6	10.6
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)