

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: P799803

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799803
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: LD6C50D010 EU6509035 6LBMDSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

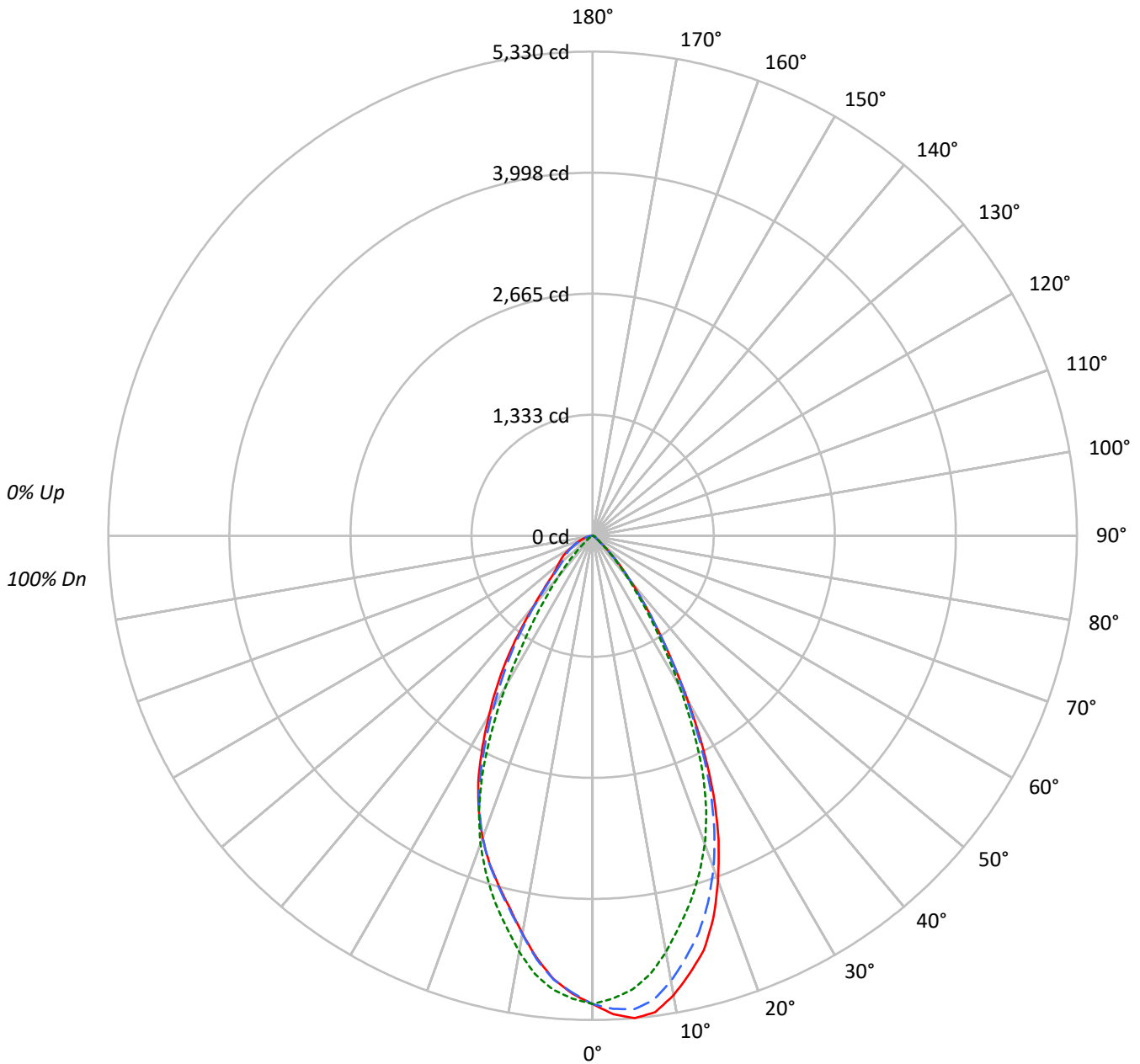
Lumens per Lamp: N/A
Luminaire Lumens: 4438.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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																			
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°	282582	282582	282582
5°	293330	275951	269711
10°	285827	258841	247451
15°	268066	236511	226290
20°	235331	210555	206530
25°	190330	172982	180107
30°	132318	120493	144142
35°	81552	73816	108790
40°	46151	41378	72250
45°	22413	21374	49307
50°	8537	8537	41918
55°	4674	5524	38680
60°	3410	4386	31697
65°	2880	3749	25956
70°	2500	3206	21382
75°	2351	3304	18364
80°	1389	2810	13354
85°	1384	5598	12580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.9	10.6
10°-20°	1186.0	26.7
20°-30°	1335.2	30.1
30°-40°	826.8	18.6
40°-50°	329.2	7.4
50°-60°	149.9	3.4
60°-70°	86.2	1.9
70°-80°	40.9	0.9
80°-90°	11.9	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°	2993.1	67.4
0°-40°	3819.9	86.1
0°-60°	4299.0	96.9
0°-90°	4438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4438.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5155	5155	5155	5155	5155	
5°	5330	5232	5015	4906	4901	502
15°	4723	4519	4167	3998	3987	1307
25°	3147	3062	2860	2931	2978	1414
35°	1219	1212	1103	1537	1626	783
45°	289	289	276	600	636	245
55°	49	47	58	356	405	49
65°	22	20	29	198	200	22
75°	11	11	16	84	87	11
85°	2	2	9	20	20	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°	5154.7	5154.7	5154.7	5154.7	5154.7	5154.7	5154.7	5154.7	5154.7
2.5°	5272.5	5223.6	5212.5	5170.2	5099.1	5059.1	5034.6	5016.8	5047.9
5°	5330.4	5277.0	5232.5	5145.8	5014.6	4941.2	4905.6	4876.7	4901.2
7.5°	5288.1	5212.5	5152.5	5032.4	4865.6	4752.2	4703.3	4669.9	4692.1
10°	5134.7	5043.5	4974.6	4832.2	4649.9	4514.2	4454.2	4423.1	4445.3
12.5°	4934.5	4858.9	4754.4	4598.7	4403.0	4260.7	4216.3	4191.8	4200.7
15°	4723.3	4634.3	4518.7	4363.0	4167.3	4025.0	3998.3	3982.8	3987.2
17.5°	4416.4	4329.7	4229.6	4078.4	3898.3	3782.6	3782.6	3771.5	3778.2
20°	4033.9	3987.2	3889.4	3762.6	3609.2	3504.6	3538.0	3526.9	3540.2
22.5°	3620.3	3584.7	3500.2	3395.7	3266.7	3184.4	3257.8	3255.6	3273.4
25°	3146.6	3119.9	3062.1	2973.2	2859.8	2808.6	2930.9	2930.9	2977.6
27.5°	2624.0	2597.4	2557.3	2481.7	2388.3	2372.8	2552.9	2575.1	2626.3
30°	2090.3	2072.5	2050.3	1981.4	1903.5	1932.4	2181.5	2219.3	2277.1
32.5°	1614.5	1603.3	1596.7	1534.4	1465.5	1561.1	1845.7	1894.6	1952.5
35°	1218.6	1194.2	1212.0	1165.3	1103.0	1223.1	1536.6	1578.9	1625.6
37.5°	898.4	880.6	896.2	862.8	807.2	938.4	1234.2	1260.9	1292.0
40°	644.9	629.3	642.7	622.7	578.2	700.5	967.3	996.2	1009.6
42.5°	458.1	431.4	444.8	429.2	406.9	527.0	760.5	787.2	791.7
45°	289.1	280.2	289.1	280.2	275.7	391.4	600.4	624.9	636.0
47.5°	175.7	164.6	164.6	160.1	164.6	289.1	495.9	531.5	549.3
50°	100.1	95.6	93.4	91.2	100.1	226.8	429.2	469.2	491.5
52.5°	66.7	64.5	64.5	62.3	73.4	191.2	386.9	422.5	444.8
55°	48.9	46.7	46.7	46.7	57.8	164.6	355.8	384.7	404.7
57.5°	37.8	37.8	37.8	35.6	48.9	140.1	318.0	333.6	349.1
60°	31.1	28.9	28.9	28.9	40.0	120.1	273.5	280.2	289.1
62.5°	24.5	24.5	24.5	24.5	33.4	106.7	235.7	235.7	240.2
65°	22.2	20.0	20.0	20.0	28.9	93.4	197.9	195.7	200.1
67.5°	17.8	17.8	17.8	17.8	24.5	80.1	162.3	160.1	164.6
70°	15.6	15.6	15.6	15.6	20.0	66.7	131.2	129.0	133.4
72.5°	13.3	13.3	13.3	13.3	17.8	55.6	104.5	104.5	106.7
75°	11.1	11.1	11.1	11.1	15.6	42.3	84.5	84.5	86.7
77.5°	8.9	8.9	8.9	8.9	11.1	33.4	64.5	62.3	62.3
80°	4.4	6.7	6.7	6.7	8.9	24.5	46.7	42.3	42.3
82.5°	2.2	4.4	4.4	4.4	8.9	17.8	31.1	28.9	28.9
85°	2.2	2.2	2.2	6.7	8.9	13.3	20.0	20.0	20.0
87.5°	0.0	2.2	4.4	8.9	11.1	11.1	13.3	11.1	11.1
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)