

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: P799809

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C50D010 EU6509040 6LBMDDWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

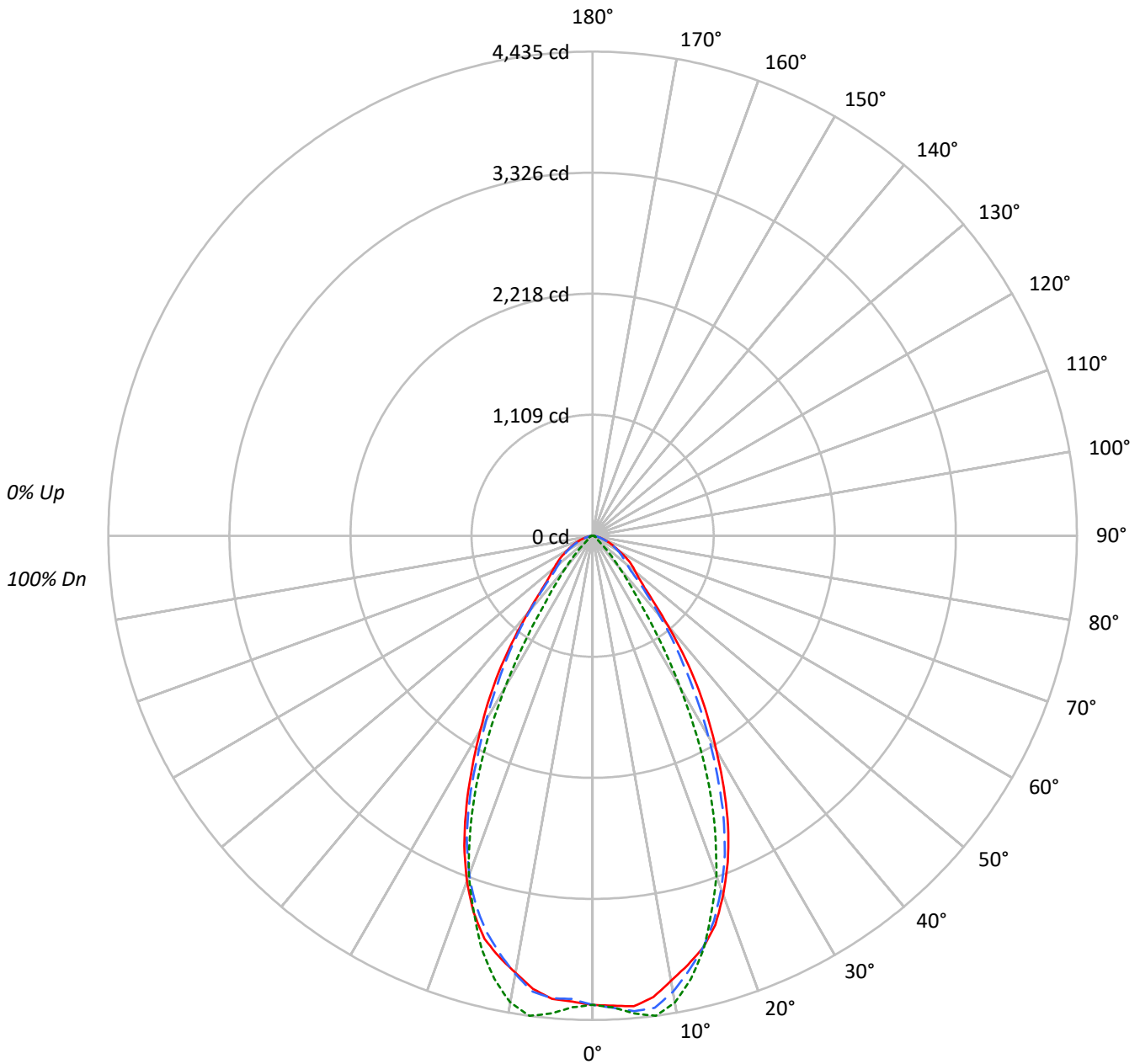
Lumens per Lamp: N/A
Luminaire Lumens: 4375.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	235584	235584	235584
5°	238047	241657	234321
10°	230334	241651	226321
15°	221687	222555	216976
20°	204033	193322	196379
25°	177567	152446	165403
30°	143212	101288	129925
35°	111032	52227	97574
40°	76178	27065	65702
45°	52191	13560	46098
50°	43436	5782	39521
55°	39071	5018	35306
60°	30919	4791	29482
65°	25515	4255	25230
70°	20677	3847	20677
75°	15271	4173	16203
80°	8966	3441	9660
85°	6856	4151	6856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.1	9.4
10°-20°	1073.7	24.5
20°-30°	1225.5	28.0
30°-40°	812.7	18.6
40°-50°	392.0	9.0
50°-60°	241.1	5.5
60°-70°	145.9	3.3
70°-80°	61.4	1.4
80°-90°	13.6	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°	2708.3	61.9
0°-40°	3521.0	80.5
0°-60°	4154.1	95.0
0°-90°	4375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4297	4297	4297	4297	4297	
5°	4326	4372	4391	4252	4258	406
15°	3906	3906	3921	3755	3823	1089
25°	2936	2837	2520	2667	2734	1331
35°	1659	1462	780	1364	1458	1026
45°	673	590	175	551	595	549
55°	409	332	52	332	369	359
65°	197	188	33	177	194	198
75°	72	72	20	68	76	77
85°	11	15	7	11	11	14
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°	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4
2.5°	4308.3	4314.9	4328.0	4330.2	4323.6	4282.1	4247.1	4260.2	4271.2
5°	4325.8	4338.9	4371.7	4402.3	4391.4	4321.4	4251.5	4249.3	4258.1
7.5°	4262.4	4293.0	4360.8	4437.3	4435.1	4314.9	4212.2	4185.9	4185.9
10°	4137.8	4166.3	4240.6	4343.3	4341.1	4190.3	4076.6	4063.5	4065.7
12.5°	4026.4	4039.5	4076.6	4157.5	4157.5	4008.9	3921.4	3934.6	3952.0
15°	3906.1	3914.9	3906.1	3932.4	3921.4	3799.0	3755.3	3796.8	3823.1
17.5°	3735.6	3740.0	3694.1	3659.1	3617.6	3541.1	3552.0	3613.2	3619.8
20°	3497.4	3525.8	3442.7	3353.1	3313.8	3241.6	3302.8	3370.6	3366.2
22.5°	3235.1	3267.9	3160.8	3012.1	2931.2	2902.8	3012.1	3073.3	3071.1
25°	2935.6	2959.7	2837.2	2629.6	2520.3	2515.9	2666.8	2730.1	2734.5
27.5°	2599.0	2607.7	2470.0	2199.0	2063.5	2096.2	2286.4	2373.8	2384.8
30°	2262.4	2258.0	2115.9	1779.3	1600.1	1689.7	1945.4	2041.6	2052.5
32.5°	1954.2	1941.0	1779.3	1377.1	1162.9	1296.2	1632.8	1733.4	1750.9
35°	1659.1	1637.2	1462.3	1018.6	780.4	979.3	1364.0	1451.4	1458.0
37.5°	1350.9	1339.9	1202.2	762.9	544.3	743.2	1112.6	1176.0	1169.4
40°	1064.5	1064.5	950.8	566.1	378.2	553.0	880.9	937.7	918.1
42.5°	835.0	845.9	749.8	417.5	268.9	410.9	697.3	749.8	727.9
45°	673.2	673.2	590.2	310.4	174.9	306.0	550.8	598.9	594.6
47.5°	570.5	561.8	478.7	227.3	96.2	229.5	463.4	522.4	520.2
50°	509.3	496.2	410.9	179.2	67.8	190.2	406.6	461.2	463.4
52.5°	461.2	441.5	369.4	159.6	59.0	166.1	369.4	413.1	413.1
55°	408.8	397.8	332.3	142.1	52.5	148.6	332.3	371.6	369.4
57.5°	345.4	343.2	297.3	129.0	48.1	131.2	297.3	321.3	312.6
60°	282.0	290.7	257.9	115.9	43.7	118.0	253.6	273.2	268.9
62.5°	236.1	247.0	225.1	102.7	37.2	104.9	214.2	233.9	229.5
65°	196.7	205.5	188.0	87.4	32.8	87.4	177.1	194.5	194.5
67.5°	161.8	168.3	155.2	72.1	28.4	72.1	144.3	159.6	161.8
70°	129.0	133.3	122.4	56.8	24.0	59.0	113.7	129.0	129.0
72.5°	100.5	102.7	96.2	45.9	21.9	45.9	87.4	100.5	100.5
75°	72.1	76.5	72.1	35.0	19.7	35.0	67.8	74.3	76.5
77.5°	41.5	52.5	52.5	28.4	15.3	26.2	48.1	50.3	50.3
80°	28.4	32.8	37.2	19.7	10.9	19.7	30.6	32.8	30.6
82.5°	19.7	21.9	21.9	13.1	8.7	13.1	19.7	21.9	19.7
85°	10.9	15.3	15.3	10.9	6.6	8.7	10.9	13.1	10.9
87.5°	6.6	8.7	10.9	8.7	6.6	6.6	6.6	6.6	4.4
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)