

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: P799721

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799721
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 EU6459027 6LBMDSWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

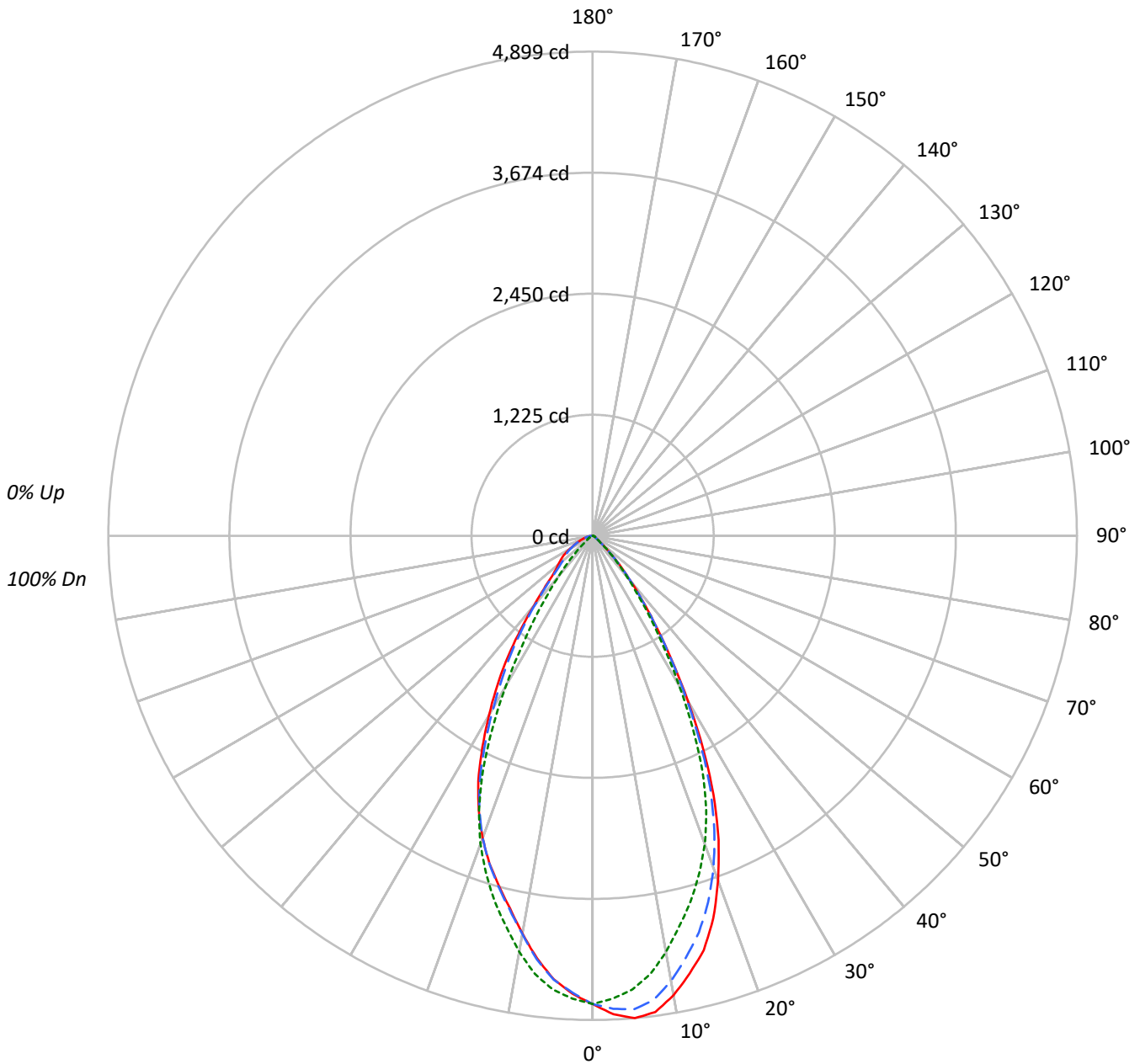
Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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																			
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°	259722	259722	259722
5°	269601	253626	247892
10°	262704	237899	227434
15°	246381	217379	207986
20°	216295	193520	189827
25°	174936	158985	165542
30°	121614	110751	132482
35°	74954	67847	99990
40°	42415	38028	66403
45°	20599	19645	45315
50°	7846	7846	38523
55°	4301	5075	35554
60°	3136	4035	29131
65°	2646	3450	23855
70°	2292	2949	19651
75°	2160	3029	16881
80°	1294	2589	12249
85°	1258	5158	11573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.7	10.6
10°-20°	1090.1	26.7
20°-30°	1227.2	30.1
30°-40°	759.9	18.6
40°-50°	302.6	7.4
50°-60°	137.8	3.4
60°-70°	79.2	1.9
70°-80°	37.6	0.9
80°-90°	11.0	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°	2751.0	67.4
0°-40°	3510.9	86.1
0°-60°	3951.2	96.9
0°-90°	4079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4738	4738	4738	4738	4738	
5°	4899	4809	4609	4509	4505	461
15°	4341	4153	3830	3675	3665	1201
25°	2892	2814	2628	2694	2737	1300
35°	1120	1114	1014	1412	1494	720
45°	266	266	253	552	584	225
55°	45	43	53	327	372	45
65°	20	18	27	182	184	20
75°	10	10	14	78	80	11
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°	4737.7	4737.7	4737.7	4737.7	4737.7	4737.7	4737.7	4737.7	4737.7
2.5°	4846.0	4801.1	4790.8	4752.0	4686.6	4649.8	4627.3	4611.0	4639.6
5°	4899.2	4850.1	4809.2	4729.5	4608.9	4541.5	4508.8	4482.2	4504.7
7.5°	4860.3	4790.8	4735.7	4625.3	4472.0	4367.8	4322.8	4292.1	4312.6
10°	4719.3	4635.5	4572.2	4441.3	4273.7	4149.1	4093.9	4065.3	4085.7
12.5°	4535.4	4465.9	4369.8	4226.7	4046.9	3916.1	3875.2	3852.7	3860.9
15°	4341.2	4259.4	4153.2	4010.1	3830.2	3699.4	3674.9	3660.6	3664.7
17.5°	4059.1	3979.4	3887.5	3748.5	3582.9	3476.6	3476.6	3466.4	3472.5
20°	3707.6	3664.7	3574.7	3458.2	3317.2	3221.1	3251.8	3241.6	3253.9
22.5°	3327.4	3294.7	3217.1	3121.0	3002.5	2926.8	2994.3	2992.2	3008.6
25°	2892.1	2867.6	2814.4	2732.7	2628.4	2581.4	2693.8	2693.8	2736.8
27.5°	2411.8	2387.2	2350.5	2281.0	2195.1	2180.8	2346.4	2366.8	2413.8
30°	1921.2	1904.9	1884.5	1821.1	1749.6	1776.1	2005.0	2039.8	2092.9
32.5°	1483.9	1473.6	1467.5	1410.3	1346.9	1434.8	1696.4	1741.4	1794.5
35°	1120.0	1097.6	1113.9	1071.0	1013.8	1124.1	1412.3	1451.2	1494.1
37.5°	825.7	809.4	823.7	793.0	741.9	862.5	1134.4	1158.9	1187.5
40°	592.7	578.4	590.7	572.3	531.4	643.8	889.1	915.7	927.9
42.5°	421.0	396.5	408.8	394.5	374.0	484.4	699.0	723.5	727.6
45°	265.7	257.5	265.7	257.5	253.4	359.7	551.8	574.3	584.5
47.5°	161.5	151.2	151.2	147.2	151.2	265.7	455.8	488.5	504.8
50°	92.0	87.9	85.8	83.8	92.0	208.5	394.5	431.3	451.7
52.5°	61.3	59.3	59.3	57.2	67.4	175.8	355.6	388.3	408.8
55°	45.0	42.9	42.9	42.9	53.1	151.2	327.0	353.6	372.0
57.5°	34.7	34.7	34.7	32.7	45.0	128.8	292.3	306.6	320.9
60°	28.6	26.6	26.6	26.6	36.8	110.4	251.4	257.5	265.7
62.5°	22.5	22.5	22.5	22.5	30.7	98.1	216.7	216.7	220.7
65°	20.4	18.4	18.4	18.4	26.6	85.8	181.9	179.9	183.9
67.5°	16.4	16.4	16.4	16.4	22.5	73.6	149.2	147.2	151.2
70°	14.3	14.3	14.3	14.3	18.4	61.3	120.6	118.5	122.6
72.5°	12.3	12.3	12.3	12.3	16.4	51.1	96.1	96.1	98.1
75°	10.2	10.2	10.2	10.2	14.3	38.8	77.7	77.7	79.7
77.5°	8.2	8.2	8.2	8.2	10.2	30.7	59.3	57.2	57.2
80°	4.1	6.1	6.1	6.1	8.2	22.5	42.9	38.8	38.8
82.5°	2.0	4.1	4.1	4.1	8.2	16.4	28.6	26.6	26.6
85°	2.0	2.0	2.0	6.1	8.2	12.3	18.4	18.4	18.4
87.5°	0.0	2.0	4.1	8.2	10.2	10.2	12.3	10.2	10.2
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)