

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: P799720

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799720
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 6LBMDSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

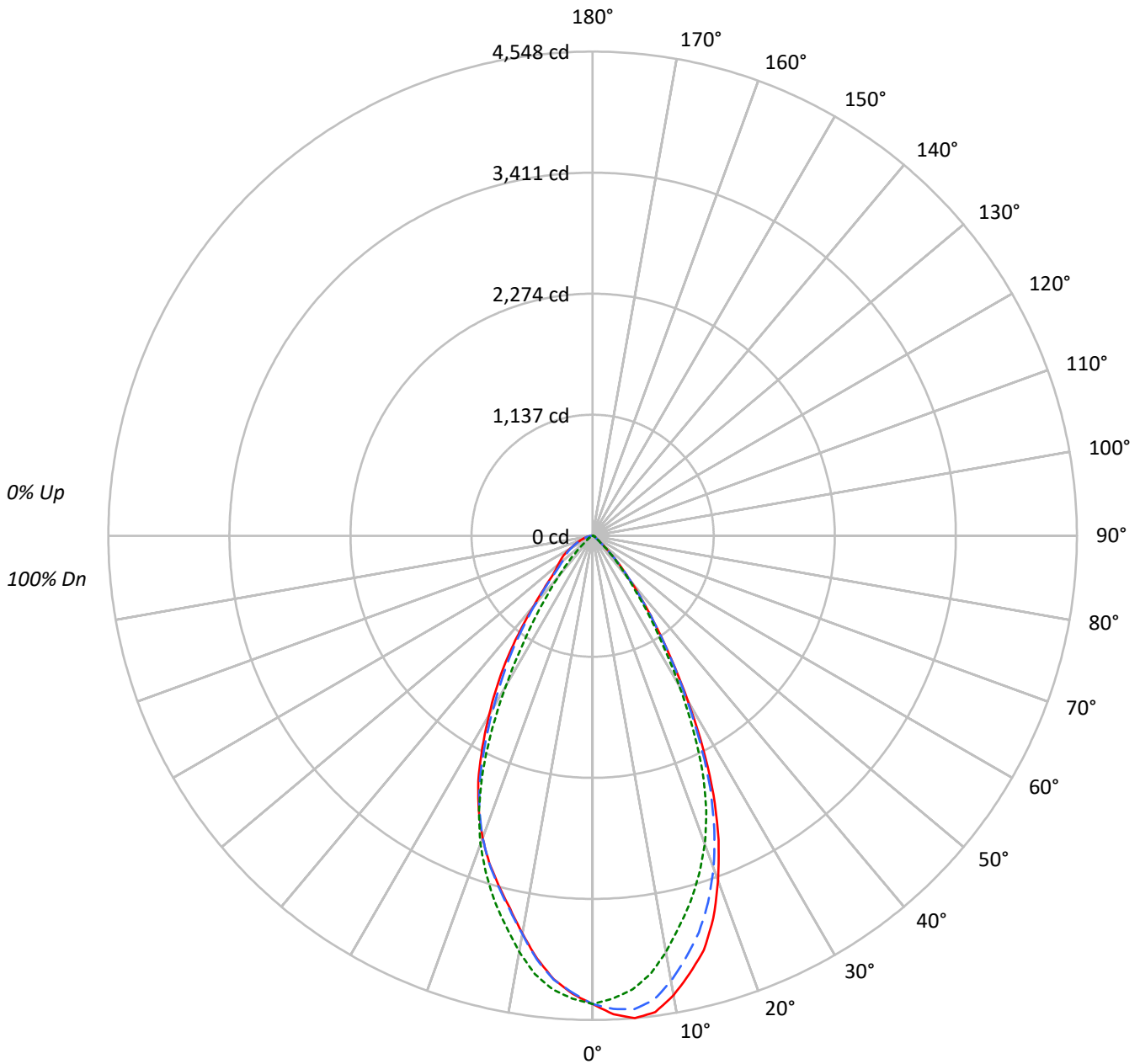
Lumens per Lamp: N/A
Luminaire Lumens: 3787.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					20										
RC	80					70					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	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°	241132	241132	241132
5°	250302	235472	230145
10°	243900	220871	211152
15°	228741	201817	193094
20°	200812	179665	176234
25°	162415	147607	153686
30°	112910	102820	123000
35°	69593	62988	92829
40°	39381	35309	61651
45°	19126	18242	42074
50°	7283	7283	35769
55°	3986	4712	33012
60°	2916	3750	27048
65°	2465	3204	22155
70°	2132	2741	18256
75°	2012	2817	15674
80°	1200	2399	11397
85°	1195	4780	10756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.7	10.6
10°-20°	1012.1	26.7
20°-30°	1139.3	30.1
30°-40°	705.5	18.6
40°-50°	280.9	7.4
50°-60°	127.9	3.4
60°-70°	73.5	1.9
70°-80°	34.9	0.9
80°-90°	10.2	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°	2554.1	67.4
0°-40°	3259.5	86.1
0°-60°	3668.4	96.9
0°-90°	3787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3787.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4399	4399	4399	4399	4399	
5°	4548	4465	4279	4186	4182	428
15°	4030	3856	3556	3412	3402	1115
25°	2685	2613	2440	2501	2541	1207
35°	1040	1034	941	1311	1387	668
45°	247	247	235	512	543	209
55°	42	40	49	304	345	41
65°	19	17	25	169	171	19
75°	10	10	13	72	74	10
85°	2	2	8	17	17	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°	4398.6	4398.6	4398.6	4398.6	4398.6	4398.6	4398.6	4398.6	4398.6
2.5°	4499.1	4457.4	4447.9	4411.8	4351.1	4317.0	4296.1	4280.9	4307.5
5°	4548.5	4502.9	4465.0	4391.0	4279.0	4216.4	4186.0	4161.4	4182.2
7.5°	4512.4	4447.9	4396.7	4294.2	4151.9	4055.1	4013.3	3984.9	4003.9
10°	4381.5	4303.7	4244.8	4123.4	3967.8	3852.1	3800.8	3774.3	3793.2
12.5°	4210.7	4146.2	4057.0	3924.2	3757.2	3635.7	3597.8	3576.9	3584.5
15°	4030.4	3954.5	3855.8	3723.0	3556.0	3434.6	3411.8	3398.5	3402.3
17.5°	3768.6	3694.6	3609.2	3480.1	3326.4	3227.8	3227.8	3218.3	3224.0
20°	3442.2	3402.3	3318.8	3210.7	3079.7	2990.6	3019.0	3009.5	3020.9
22.5°	3089.2	3058.9	2986.8	2897.6	2787.5	2717.3	2779.9	2778.0	2793.2
25°	2685.1	2662.3	2612.9	2537.0	2440.3	2396.6	2501.0	2501.0	2540.8
27.5°	2239.1	2216.4	2182.2	2117.7	2038.0	2024.7	2178.4	2197.4	2241.0
30°	1783.7	1768.5	1749.6	1690.7	1624.3	1649.0	1861.5	1893.8	1943.1
32.5°	1377.6	1368.1	1362.5	1309.3	1250.5	1332.1	1575.0	1616.7	1666.1
35°	1039.9	1019.0	1034.2	994.3	941.2	1043.7	1311.2	1347.3	1387.1
37.5°	766.6	751.4	764.7	736.3	688.8	800.8	1053.1	1075.9	1102.5
40°	550.3	537.0	548.4	531.3	493.4	597.7	825.4	850.1	861.5
42.5°	390.9	368.1	379.5	366.2	347.3	449.7	649.0	671.7	675.5
45°	246.7	239.1	246.7	239.1	235.3	334.0	512.3	533.2	542.7
47.5°	149.9	140.4	140.4	136.6	140.4	246.7	423.2	453.5	468.7
50°	85.4	81.6	79.7	77.8	85.4	193.6	366.2	400.4	419.4
52.5°	56.9	55.0	55.0	53.1	62.6	163.2	330.2	360.5	379.5
55°	41.7	39.8	39.8	39.8	49.3	140.4	303.6	328.3	345.4
57.5°	32.3	32.3	32.3	30.4	41.7	119.5	271.4	284.6	297.9
60°	26.6	24.7	24.7	24.7	34.2	102.5	233.4	239.1	246.7
62.5°	20.9	20.9	20.9	20.9	28.5	91.1	201.1	201.1	204.9
65°	19.0	17.1	17.1	17.1	24.7	79.7	168.9	167.0	170.8
67.5°	15.2	15.2	15.2	15.2	20.9	68.3	138.5	136.6	140.4
70°	13.3	13.3	13.3	13.3	17.1	56.9	112.0	110.1	113.9
72.5°	11.4	11.4	11.4	11.4	15.2	47.4	89.2	89.2	91.1
75°	9.5	9.5	9.5	9.5	13.3	36.1	72.1	72.1	74.0
77.5°	7.6	7.6	7.6	7.6	9.5	28.5	55.0	53.1	53.1
80°	3.8	5.7	5.7	5.7	7.6	20.9	39.8	36.1	36.1
82.5°	1.9	3.8	3.8	3.8	7.6	15.2	26.6	24.7	24.7
85°	1.9	1.9	1.9	5.7	7.6	11.4	17.1	17.1	17.1
87.5°	0.0	1.9	3.8	7.6	9.5	9.5	11.4	9.5	9.5
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)