

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: P799734

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799734
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 6LBMDSWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

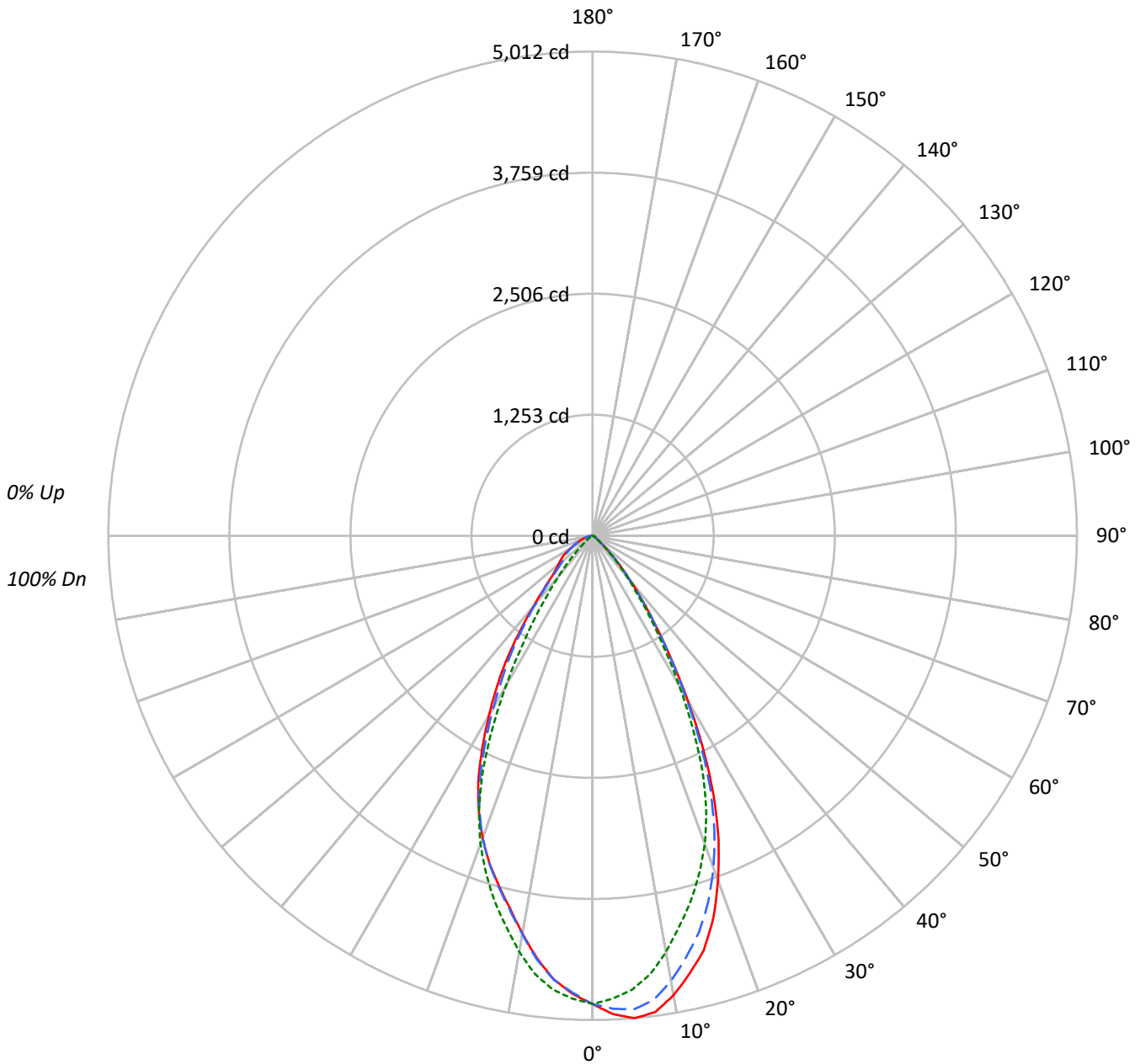
Lumens per Lamp: N/A
Luminaire Lumens: 4173.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	265708	265708	265708
5°	275814	259475	253604
10°	268760	243382	232678
15°	252056	222391	212776
20°	221278	197983	194197
25°	178964	162651	169353
30°	124418	113302	135540
35°	76687	69406	102292
40°	43396	38909	67934
45°	21072	20103	46361
50°	8025	8025	39410
55°	4396	5199	36376
60°	3212	4122	29800
65°	2711	3528	24412
70°	2340	3013	20116
75°	2224	3092	17262
80°	1326	2652	12533
85°	1321	5284	11825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	10.6
10°-20°	1115.2	26.7
20°-30°	1255.4	30.1
30°-40°	777.4	18.6
40°-50°	309.6	7.4
50°-60°	140.9	3.4
60°-70°	81.0	1.9
70°-80°	38.5	0.9
80°-90°	11.2	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°	2814.4	67.4
0°-40°	3591.8	86.1
0°-60°	4042.3	96.9
0°-90°	4173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4847	4847	4847	4847	4847	
5°	5012	4920	4715	4613	4608	472
15°	4441	4249	3918	3760	3749	1229
25°	2959	2879	2689	2756	2800	1330
35°	1146	1140	1037	1445	1528	736
45°	272	272	259	565	598	230
55°	46	44	54	335	381	46
65°	21	19	27	186	188	20
75°	10	10	15	80	82	11
85°	2	2	8	19	19	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°	4846.9	4846.9	4846.9	4846.9	4846.9	4846.9	4846.9	4846.9	4846.9
2.5°	4957.7	4911.7	4901.3	4861.5	4794.6	4757.0	4734.0	4717.2	4746.5
5°	5012.1	4961.9	4920.1	4838.5	4715.2	4646.2	4612.7	4585.5	4608.5
7.5°	4972.3	4901.3	4844.8	4731.9	4575.1	4468.4	4422.4	4391.1	4412.0
10°	4828.1	4742.3	4677.5	4543.7	4372.2	4244.7	4188.2	4159.0	4179.9
12.5°	4639.9	4568.8	4470.5	4324.1	4140.1	4006.3	3964.5	3941.5	3949.9
15°	4441.2	4357.6	4248.9	4102.5	3918.5	3784.7	3759.6	3744.9	3749.1
17.5°	4152.7	4071.1	3977.0	3834.9	3665.5	3556.8	3556.8	3546.3	3552.6
20°	3793.0	3749.1	3657.1	3537.9	3393.7	3295.4	3326.7	3316.3	3328.8
22.5°	3404.1	3370.7	3291.2	3192.9	3071.6	2994.3	3063.3	3061.2	3077.9
25°	2958.7	2933.6	2879.3	2795.6	2689.0	2640.9	2755.9	2755.9	2799.8
27.5°	2467.4	2442.3	2404.6	2333.5	2245.7	2231.1	2400.4	2421.4	2469.4
30°	1965.5	1948.8	1927.9	1863.1	1789.9	1817.1	2051.2	2086.8	2141.2
32.5°	1518.0	1507.6	1501.3	1442.8	1378.0	1467.9	1735.5	1781.5	1835.9
35°	1145.9	1122.9	1139.6	1095.7	1037.1	1150.0	1444.9	1484.6	1528.5
37.5°	844.8	828.0	842.7	811.3	759.0	882.4	1160.5	1185.6	1214.9
40°	606.4	591.7	604.3	585.5	543.7	658.7	909.6	936.8	949.3
42.5°	430.7	405.6	418.2	403.6	382.6	495.6	715.1	740.2	744.4
45°	271.8	263.5	271.8	263.5	259.3	368.0	564.6	587.6	598.0
47.5°	165.2	154.7	154.7	150.6	154.7	271.8	466.3	499.7	516.5
50°	94.1	89.9	87.8	85.7	94.1	213.3	403.6	441.2	462.1
52.5°	62.7	60.6	60.6	58.5	69.0	179.8	363.8	397.3	418.2
55°	46.0	43.9	43.9	43.9	54.4	154.7	334.6	361.7	380.6
57.5°	35.5	35.5	35.5	33.5	46.0	131.7	299.0	313.6	328.3
60°	29.3	27.2	27.2	27.2	37.6	112.9	257.2	263.5	271.8
62.5°	23.0	23.0	23.0	23.0	31.4	100.4	221.6	221.6	225.8
65°	20.9	18.8	18.8	18.8	27.2	87.8	186.1	184.0	188.2
67.5°	16.7	16.7	16.7	16.7	23.0	75.3	152.6	150.6	154.7
70°	14.6	14.6	14.6	14.6	18.8	62.7	123.4	121.3	125.5
72.5°	12.5	12.5	12.5	12.5	16.7	52.3	98.3	98.3	100.4
75°	10.5	10.5	10.5	10.5	14.6	39.7	79.5	79.5	81.5
77.5°	8.4	8.4	8.4	8.4	10.5	31.4	60.6	58.5	58.5
80°	4.2	6.3	6.3	6.3	8.4	23.0	43.9	39.7	39.7
82.5°	2.1	4.2	4.2	4.2	8.4	16.7	29.3	27.2	27.2
85°	2.1	2.1	2.1	6.3	8.4	12.5	18.8	18.8	18.8
87.5°	0.0	2.1	4.2	8.4	10.5	10.5	12.5	10.5	10.5
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)