

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: P799827

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799827
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 EU6509050 6LBMDSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

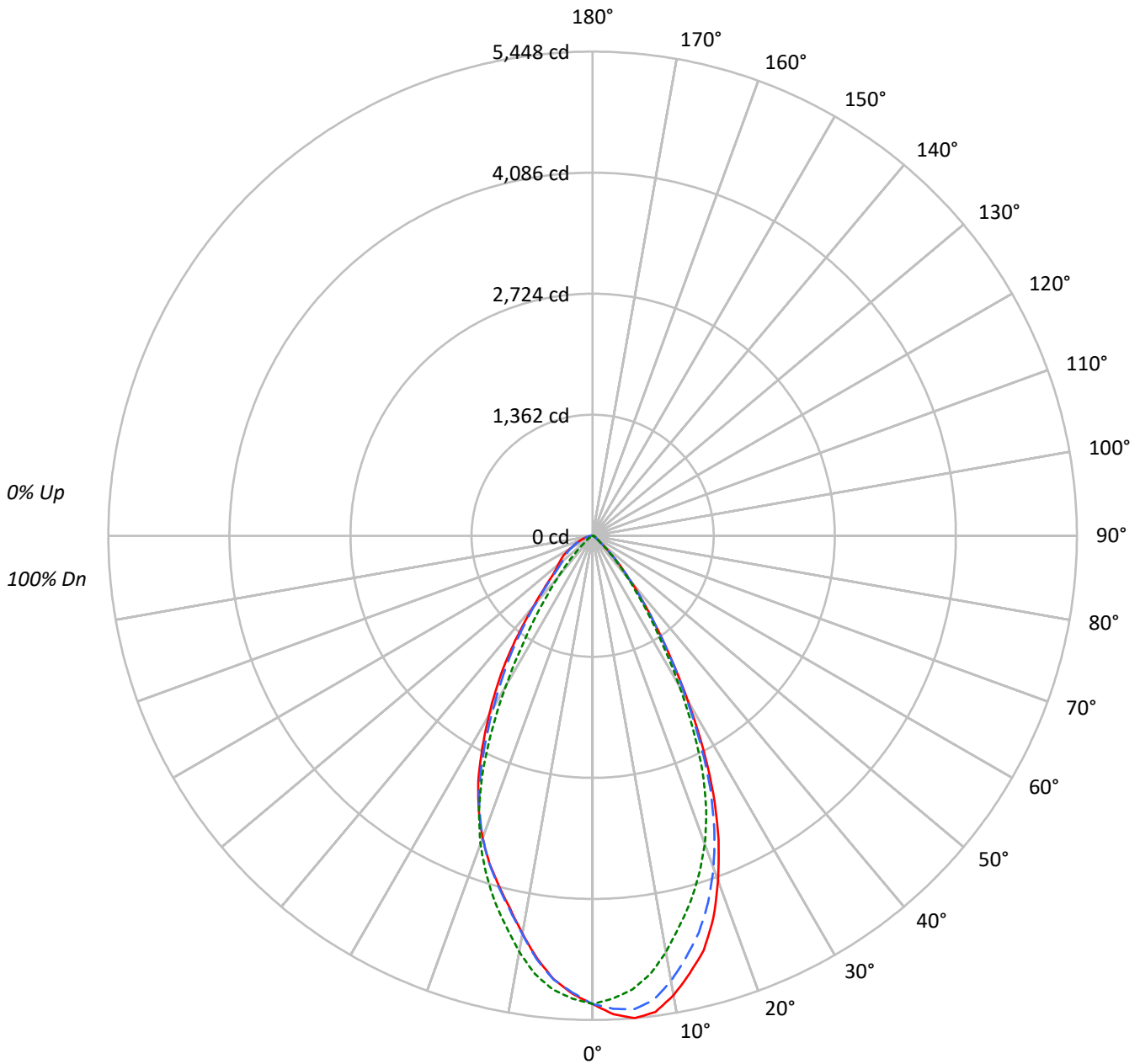
Lumens per Lamp: N/A
Luminaire Lumens: 4536.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799827

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMSWH

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°	288820	288820	288820
5°	299807	282043	275665
10°	292140	264558	252918
15°	273986	241738	231290
20°	240529	215205	211092
25°	194533	176799	184087
30°	135242	123158	147326
35°	83353	75442	111193
40°	47167	42286	73845
45°	22909	21847	50393
50°	8725	8725	42839
55°	4779	5649	39540
60°	3487	4484	32399
65°	2945	3827	26540
70°	2549	3286	21863
75°	2415	3368	18766
80°	1421	2873	13638
85°	1447	5724	12894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.3	10.6
10°-20°	1212.2	26.7
20°-30°	1364.6	30.1
30°-40°	845.0	18.6
40°-50°	336.5	7.4
50°-60°	153.2	3.4
60°-70°	88.1	1.9
70°-80°	41.8	0.9
80°-90°	12.2	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°	3059.2	67.4
0°-40°	3904.2	86.1
0°-60°	4393.9	96.9
0°-90°	4536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4536.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5268	5268	5268	5268	5268	
5°	5448	5348	5125	5014	5009	513
15°	4828	4618	4259	4087	4075	1336
25°	3216	3130	2923	2996	3043	1446
35°	1246	1239	1127	1571	1662	800
45°	296	296	282	614	650	250
55°	50	48	59	364	414	50
65°	23	20	30	202	205	22
75°	11	11	16	86	89	12
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°	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5
2.5°	5389.0	5339.0	5327.6	5284.4	5211.7	5170.8	5145.8	5127.6	5159.4
5°	5448.1	5393.5	5348.1	5259.4	5125.3	5050.3	5013.9	4984.4	5009.4
7.5°	5404.9	5327.6	5266.2	5143.5	4973.0	4857.1	4807.1	4773.0	4795.7
10°	5248.1	5154.9	5084.4	4938.9	4752.6	4613.9	4552.6	4520.7	4543.5
12.5°	5043.5	4966.2	4859.4	4700.3	4500.3	4354.8	4309.4	4284.4	4293.4
15°	4827.6	4736.7	4618.5	4459.4	4259.4	4113.9	4086.6	4070.7	4075.3
17.5°	4513.9	4425.3	4323.0	4168.4	3984.3	3866.1	3866.1	3854.8	3861.6
20°	4123.0	4075.3	3975.2	3845.7	3688.9	3582.0	3616.1	3604.8	3618.4
22.5°	3700.2	3663.9	3577.5	3470.7	3338.8	3254.7	3329.8	3327.5	3345.7
25°	3216.1	3188.8	3129.7	3038.8	2922.9	2870.6	2995.6	2995.6	3043.4
27.5°	2682.0	2654.7	2613.8	2536.5	2441.1	2425.1	2609.3	2632.0	2684.3
30°	2136.5	2118.3	2095.6	2025.1	1945.6	1975.1	2229.7	2268.3	2327.4
32.5°	1650.1	1638.7	1631.9	1568.3	1497.8	1595.6	1886.5	1936.5	1995.6
35°	1245.5	1220.5	1238.7	1191.0	1127.3	1250.1	1570.6	1613.7	1661.5
37.5°	918.2	900.1	916.0	881.9	825.1	959.1	1261.4	1288.7	1320.5
40°	659.1	643.2	656.9	636.4	590.9	716.0	988.7	1018.2	1031.9
42.5°	468.2	440.9	454.6	438.7	415.9	538.7	777.3	804.6	809.1
45°	295.5	286.4	295.5	286.4	281.8	400.0	613.7	638.7	650.0
47.5°	179.6	168.2	168.2	163.6	168.2	295.5	506.8	543.2	561.4
50°	102.3	97.7	95.5	93.2	102.3	231.8	438.7	479.6	502.3
52.5°	68.2	65.9	65.9	63.6	75.0	195.5	395.5	431.8	454.6
55°	50.0	47.7	47.7	47.7	59.1	168.2	363.7	393.2	413.7
57.5°	38.6	38.6	38.6	36.4	50.0	143.2	325.0	340.9	356.8
60°	31.8	29.5	29.5	29.5	40.9	122.7	279.6	286.4	295.5
62.5°	25.0	25.0	25.0	25.0	34.1	109.1	240.9	240.9	245.5
65°	22.7	20.5	20.5	20.5	29.5	95.5	202.3	200.0	204.6
67.5°	18.2	18.2	18.2	18.2	25.0	81.8	165.9	163.6	168.2
70°	15.9	15.9	15.9	15.9	20.5	68.2	134.1	131.8	136.4
72.5°	13.6	13.6	13.6	13.6	18.2	56.8	106.8	106.8	109.1
75°	11.4	11.4	11.4	11.4	15.9	43.2	86.4	86.4	88.6
77.5°	9.1	9.1	9.1	9.1	11.4	34.1	65.9	63.6	63.6
80°	4.5	6.8	6.8	6.8	9.1	25.0	47.7	43.2	43.2
82.5°	2.3	4.5	4.5	4.5	9.1	18.2	31.8	29.5	29.5
85°	2.3	2.3	2.3	6.8	9.1	13.6	20.5	20.5	20.5
87.5°	0.0	2.3	4.5	9.1	11.4	11.4	13.6	11.4	11.4
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)