

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: P799707

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799707  
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: LD6C40D010 EU6409050 6LBMDSWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

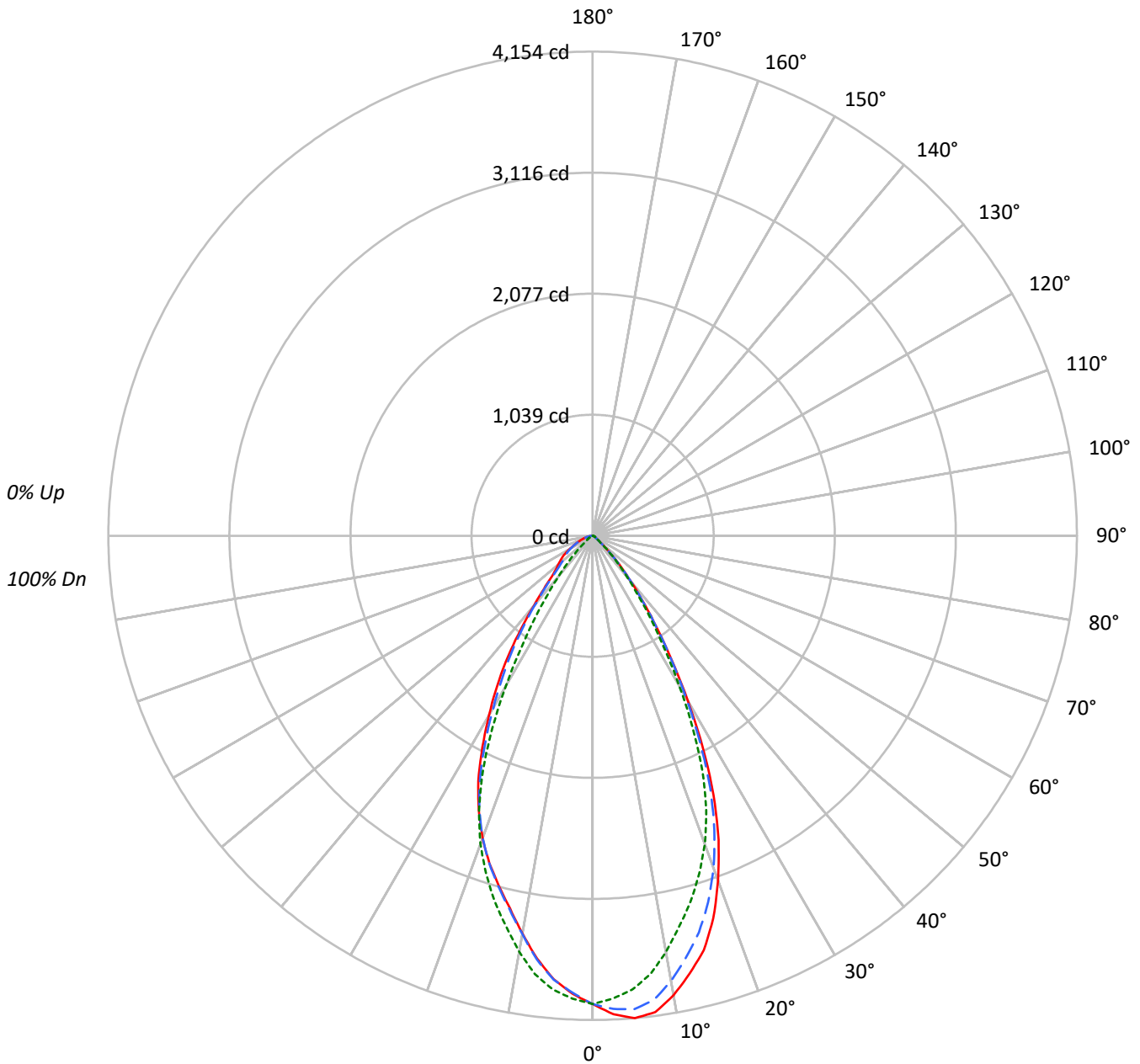
Lumens per Lamp: N/A  
Luminaire Lumens: 3459.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	220246	220246	220246
5°	228620	215078	210213
10°	222775	201739	192866
15°	208929	184337	176369
20°	183416	164106	160973
25°	148345	134820	140379
30°	103130	93913	112346
35°	63564	57534	84792
40°	35967	32246	56313
45°	17467	16661	38430
50°	6652	6652	32664
55°	3641	4310	30145
60°	2664	3421	24702
65°	2244	2919	20236
70°	1939	2500	16669
75°	1843	2563	14318
80°	1105	2178	10386
85°	1069	4340	9812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.8	10.6
10°-20°	924.4	26.7
20°-30°	1040.6	30.1
30°-40°	644.4	18.6
40°-50°	256.6	7.4
50°-60°	116.8	3.4
60°-70°	67.2	1.9
70°-80°	31.9	0.9
80°-90°	9.3	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°	2332.8	67.4
0°-40°	2977.2	86.1
0°-60°	3350.7	96.9
0°-90°	3459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3459.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4018	4018	4018	4018	4018	
5°	4154	4078	3908	3824	3820	391
15°	3681	3522	3248	3116	3108	1018
25°	2452	2387	2229	2284	2321	1102
35°	950	945	860	1198	1267	610
45°	225	225	215	468	496	191
55°	38	36	45	277	315	38
65°	17	16	22	154	156	17
75°	9	9	12	66	68	9
85°	2	2	7	16	16	1
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°	4017.6	4017.6	4017.6	4017.6	4017.6	4017.6	4017.6	4017.6	4017.6
2.5°	4109.4	4071.3	4062.6	4029.7	3974.3	3943.1	3924.0	3910.1	3934.4
5°	4154.5	4112.9	4078.2	4010.7	3908.4	3851.2	3823.5	3800.9	3820.0
7.5°	4121.6	4062.6	4015.9	3922.3	3792.3	3703.9	3665.7	3639.7	3657.1
10°	4002.0	3930.9	3877.2	3766.3	3624.1	3518.4	3471.6	3447.4	3464.7
12.5°	3846.0	3787.1	3705.6	3584.3	3431.8	3320.8	3286.2	3267.1	3274.0
15°	3681.3	3612.0	3521.9	3400.6	3248.0	3137.1	3116.3	3104.2	3107.6
17.5°	3442.2	3374.6	3296.6	3178.7	3038.3	2948.2	2948.2	2939.5	2944.7
20°	3144.0	3107.6	3031.4	2932.6	2813.0	2731.5	2757.5	2748.9	2759.3
22.5°	2821.7	2793.9	2728.1	2646.6	2546.1	2482.0	2539.2	2537.4	2551.3
25°	2452.5	2431.7	2386.6	2317.3	2228.9	2189.0	2284.4	2284.4	2320.8
27.5°	2045.2	2024.4	1993.2	1934.3	1861.5	1849.3	1989.7	2007.1	2046.9
30°	1629.2	1615.4	1598.0	1544.3	1483.6	1506.2	1700.3	1729.7	1774.8
32.5°	1258.3	1249.6	1244.4	1195.9	1142.2	1216.7	1438.6	1476.7	1521.8
35°	949.8	930.7	944.6	908.2	859.7	953.3	1197.6	1230.6	1267.0
37.5°	700.2	686.4	698.5	672.5	629.2	731.4	961.9	982.7	1007.0
40°	502.6	490.5	500.9	485.3	450.6	546.0	753.9	776.5	786.9
42.5°	357.0	336.2	346.6	334.5	317.2	410.8	592.8	613.6	617.0
45°	225.3	218.4	225.3	218.4	214.9	305.0	468.0	487.0	495.7
47.5°	136.9	128.3	128.3	124.8	128.3	225.3	386.5	414.2	428.1
50°	78.0	74.5	72.8	71.1	78.0	176.8	334.5	365.7	383.0
52.5°	52.0	50.3	50.3	48.5	57.2	149.1	301.6	329.3	346.6
55°	38.1	36.4	36.4	36.4	45.1	128.3	277.3	299.8	315.4
57.5°	29.5	29.5	29.5	27.7	38.1	109.2	247.8	260.0	272.1
60°	24.3	22.5	22.5	22.5	31.2	93.6	213.2	218.4	225.3
62.5°	19.1	19.1	19.1	19.1	26.0	83.2	183.7	183.7	187.2
65°	17.3	15.6	15.6	15.6	22.5	72.8	154.3	152.5	156.0
67.5°	13.9	13.9	13.9	13.9	19.1	62.4	126.5	124.8	128.3
70°	12.1	12.1	12.1	12.1	15.6	52.0	102.3	100.5	104.0
72.5°	10.4	10.4	10.4	10.4	13.9	43.3	81.5	81.5	83.2
75°	8.7	8.7	8.7	8.7	12.1	32.9	65.9	65.9	67.6
77.5°	6.9	6.9	6.9	6.9	8.7	26.0	50.3	48.5	48.5
80°	3.5	5.2	5.2	5.2	6.9	19.1	36.4	32.9	32.9
82.5°	1.7	3.5	3.5	3.5	6.9	13.9	24.3	22.5	22.5
85°	1.7	1.7	1.7	5.2	6.9	10.4	15.6	15.6	15.6
87.5°	0.0	1.7	3.5	6.9	8.7	8.7	10.4	8.7	8.7
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)