

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: P799672

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799672  
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 EU6409030 6LBMDSWLI  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

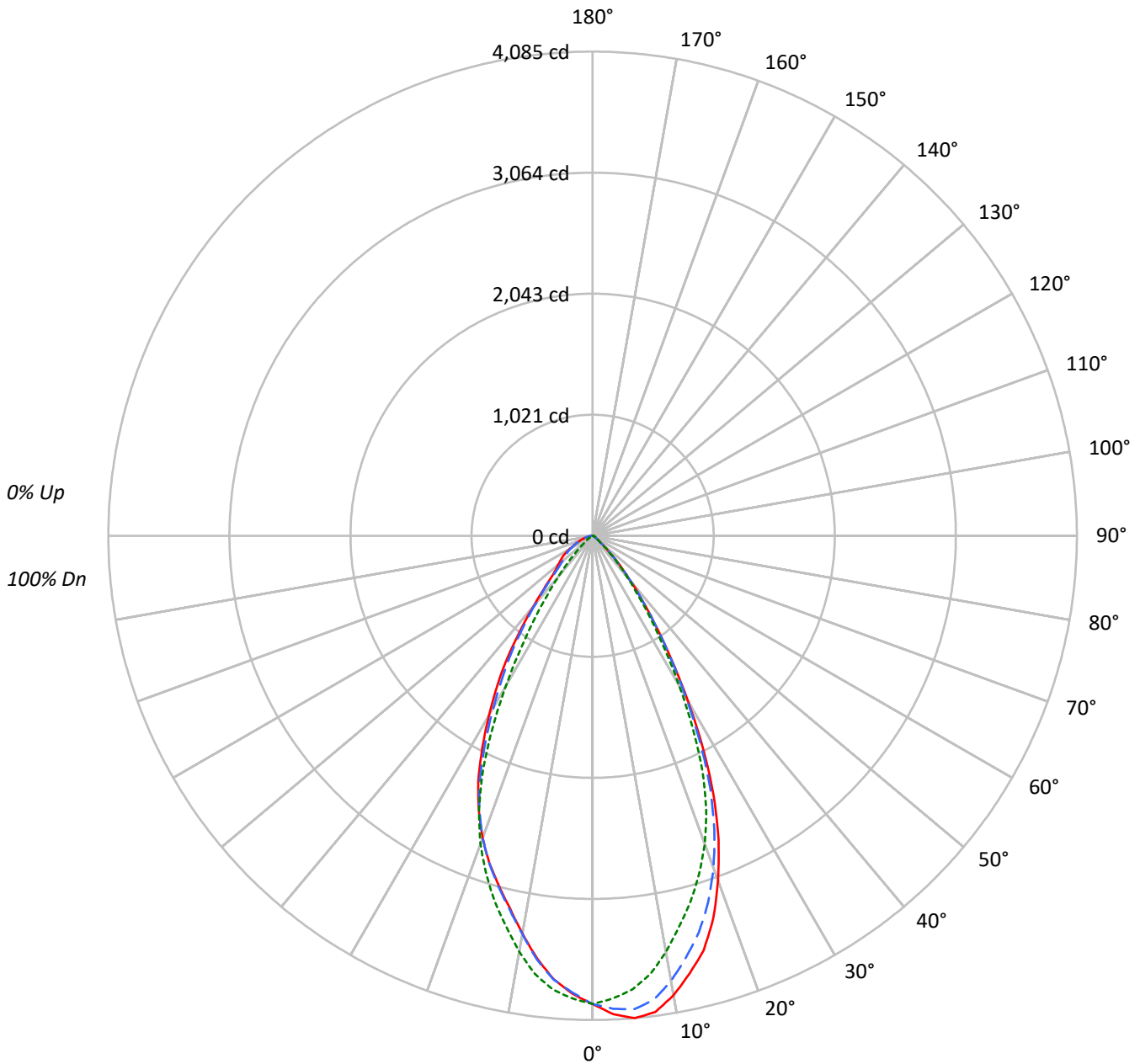
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3401.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 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): 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									
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°	216551	216551	216551
5°	224785	211473	206686
10°	219040	198360	189631
15°	205427	181250	173412
20°	180342	161352	158272
25°	145859	132558	138026
30°	101402	92343	110460
35°	62499	56570	83366
40°	35366	31709	55368
45°	17172	16382	37787
50°	6541	6541	32118
55°	3584	4234	29648
60°	2620	3366	24285
65°	2205	2880	19898
70°	1907	2452	16381
75°	1800	2521	14085
80°	1073	2147	10229
85°	1069	4277	9624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.6	10.6
10°-20°	908.9	26.7
20°-30°	1023.2	30.1
30°-40°	633.6	18.6
40°-50°	252.3	7.4
50°-60°	114.9	3.4
60°-70°	66.0	1.9
70°-80°	31.3	0.9
80°-90°	9.1	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°	2293.7	67.4
0°-40°	2927.3	86.1
0°-60°	3294.5	96.9
0°-90°	3401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3950	3950	3950	3950	3950	
5°	4085	4010	3843	3759	3756	385
15°	3620	3463	3194	3064	3056	1001
25°	2411	2347	2192	2246	2282	1084
35°	934	929	845	1178	1246	600
45°	222	222	211	460	487	188
55°	38	36	44	273	310	37
65°	17	15	22	152	153	17
75°	8	8	12	65	66	9
85°	2	2	7	15	15	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°	3950.2	3950.2	3950.2	3950.2	3950.2	3950.2	3950.2	3950.2	3950.2
2.5°	4040.5	4003.0	3994.5	3962.1	3907.6	3876.9	3858.2	3844.6	3868.4
5°	4084.8	4043.9	4009.9	3943.4	3842.9	3786.6	3759.4	3737.2	3755.9
7.5°	4052.5	3994.5	3948.5	3856.5	3728.7	3641.8	3604.3	3578.7	3595.8
10°	3934.9	3865.0	3812.2	3703.1	3563.4	3459.4	3413.4	3389.6	3406.6
12.5°	3781.5	3723.6	3643.5	3524.2	3374.2	3265.2	3231.1	3212.3	3219.1
15°	3619.6	3551.4	3462.8	3343.5	3193.6	3084.5	3064.1	3052.1	3055.5
17.5°	3384.4	3318.0	3241.3	3125.4	2987.4	2898.8	2898.8	2890.2	2895.3
20°	3091.3	3055.5	2980.6	2883.4	2765.8	2685.7	2711.3	2702.8	2713.0
22.5°	2774.4	2747.1	2682.3	2602.2	2503.4	2440.3	2496.6	2494.9	2508.5
25°	2411.4	2390.9	2346.6	2278.4	2191.5	2152.3	2246.1	2246.1	2281.9
27.5°	2010.9	1990.4	1959.8	1901.8	1830.3	1818.3	1956.4	1973.4	2012.6
30°	1601.9	1588.3	1571.2	1518.4	1458.8	1480.9	1671.8	1700.7	1745.0
32.5°	1237.2	1228.7	1223.6	1175.9	1123.0	1196.3	1414.4	1451.9	1496.2
35°	933.9	915.1	928.8	893.0	845.3	937.3	1177.6	1209.9	1245.7
37.5°	688.5	674.8	686.8	661.2	618.6	719.2	945.8	966.3	990.1
40°	494.2	482.3	492.5	477.2	443.1	536.8	741.3	763.5	773.7
42.5°	351.1	330.6	340.8	328.9	311.9	403.9	582.8	603.3	606.7
45°	221.5	214.7	221.5	214.7	211.3	299.9	460.1	478.9	487.4
47.5°	134.6	126.1	126.1	122.7	126.1	221.5	380.0	407.3	420.9
50°	76.7	73.3	71.6	69.9	76.7	173.8	328.9	359.6	376.6
52.5°	51.1	49.4	49.4	47.7	56.2	146.6	296.5	323.8	340.8
55°	37.5	35.8	35.8	35.8	44.3	126.1	272.7	294.8	310.2
57.5°	29.0	29.0	29.0	27.3	37.5	107.4	243.7	255.6	267.6
60°	23.9	22.2	22.2	22.2	30.7	92.0	209.6	214.7	221.5
62.5°	18.7	18.7	18.7	18.7	25.6	81.8	180.6	180.6	184.0
65°	17.0	15.3	15.3	15.3	22.2	71.6	151.7	150.0	153.4
67.5°	13.6	13.6	13.6	13.6	18.7	61.3	124.4	122.7	126.1
70°	11.9	11.9	11.9	11.9	15.3	51.1	100.5	98.8	102.2
72.5°	10.2	10.2	10.2	10.2	13.6	42.6	80.1	80.1	81.8
75°	8.5	8.5	8.5	8.5	11.9	32.4	64.8	64.8	66.5
77.5°	6.8	6.8	6.8	6.8	8.5	25.6	49.4	47.7	47.7
80°	3.4	5.1	5.1	5.1	6.8	18.7	35.8	32.4	32.4
82.5°	1.7	3.4	3.4	3.4	6.8	13.6	23.9	22.2	22.2
85°	1.7	1.7	1.7	5.1	6.8	10.2	15.3	15.3	15.3
87.5°	0.0	1.7	3.4	6.8	8.5	8.5	10.2	8.5	8.5
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)