

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: P799730

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799730  
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 6LBMDSWGPH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

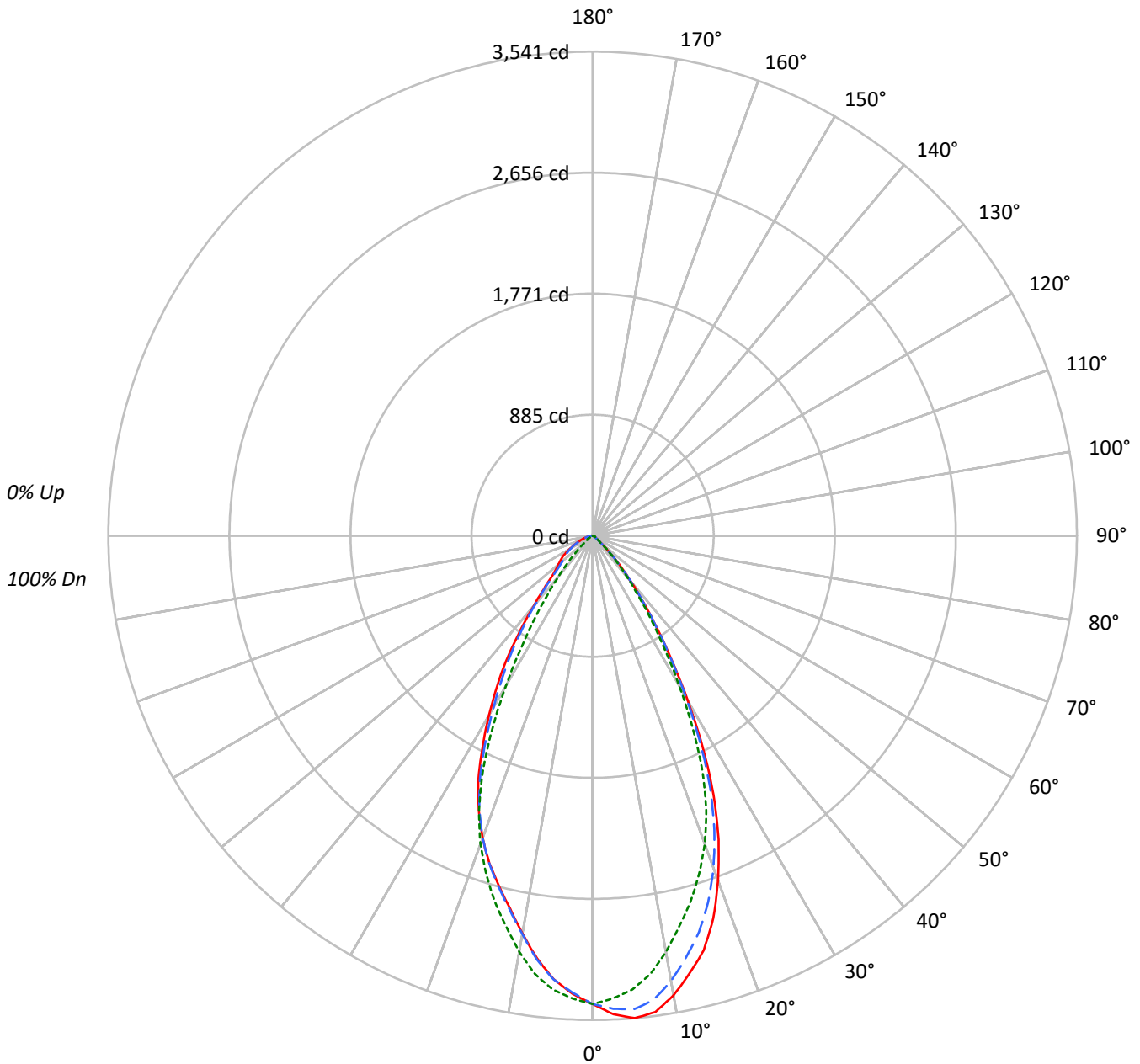
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2948.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 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<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°	187710	187710	187710
5°	194849	183304	179160
10°	189865	171935	164370
15°	178066	157106	150319
20°	156324	139860	137189
25°	126431	114902	119638
30°	87893	80044	95749
35°	54174	49035	72264
40°	30657	27487	47990
45°	14885	14203	32755
50°	5671	5671	27846
55°	3106	3670	25691
60°	2270	2916	21051
65°	1920	2491	17239
70°	1651	2132	14201
75°	1567	2182	12200
80°	947	1863	8871
85°	943	3711	8366



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.5	10.6
10°-20°	787.8	26.7
20°-30°	886.9	30.1
30°-40°	549.2	18.6
40°-50°	218.7	7.4
50°-60°	99.6	3.4
60°-70°	57.2	1.9
70°-80°	27.2	0.9
80°-90°	7.9	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°	1988.2	67.4
0°-40°	2537.4	86.1
0°-60°	2855.7	96.9
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3424	3424	3424	3424	3424	
5°	3541	3476	3331	3259	3256	333
15°	3138	3002	2768	2656	2649	868
25°	2090	2034	1900	1947	1978	940
35°	810	805	733	1021	1080	520
45°	192	192	183	399	422	163
55°	32	31	38	236	269	32
65°	15	13	19	132	133	14
75°	7	7	10	56	58	8
85°	2	2	6	13	13	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°	3424.1	3424.1	3424.1	3424.1	3424.1	3424.1	3424.1	3424.1	3424.1
2.5°	3502.4	3469.9	3462.5	3434.4	3387.1	3360.5	3344.3	3332.5	3353.2
5°	3540.8	3505.3	3475.8	3418.2	3331.0	3282.3	3258.6	3239.4	3255.7
7.5°	3512.7	3462.5	3422.6	3342.8	3232.0	3156.7	3124.2	3102.0	3116.8
10°	3410.8	3350.2	3304.4	3209.9	3088.7	2998.6	2958.8	2938.1	2952.8
12.5°	3277.8	3227.6	3158.2	3054.8	2924.8	2830.2	2800.7	2784.5	2790.4
15°	3137.5	3078.4	3001.6	2898.2	2768.2	2673.7	2655.9	2645.6	2648.6
17.5°	2933.6	2876.0	2809.6	2709.1	2589.5	2512.7	2512.7	2505.3	2509.7
20°	2679.6	2648.6	2583.6	2499.4	2397.4	2328.0	2350.2	2342.8	2351.6
22.5°	2404.8	2381.2	2325.1	2255.6	2170.0	2115.3	2164.0	2162.6	2174.4
25°	2090.2	2072.5	2034.1	1975.0	1899.6	1865.7	1946.9	1946.9	1977.9
27.5°	1743.1	1725.3	1698.7	1648.5	1586.5	1576.1	1695.8	1710.6	1744.5
30°	1388.5	1376.7	1361.9	1316.2	1264.5	1283.7	1449.1	1474.2	1512.6
32.5°	1072.4	1065.0	1060.6	1019.2	973.5	1037.0	1226.0	1258.5	1296.9
35°	809.5	793.2	805.1	774.0	732.7	812.4	1020.7	1048.8	1079.8
37.5°	596.8	585.0	595.3	573.1	536.2	623.4	819.8	837.6	858.2
40°	428.4	418.0	426.9	413.6	384.1	465.3	642.6	661.8	670.6
42.5°	304.3	286.6	295.4	285.1	270.3	350.1	505.2	522.9	525.9
45°	192.0	186.1	192.0	186.1	183.2	260.0	398.8	415.1	422.5
47.5°	116.7	109.3	109.3	106.4	109.3	192.0	329.4	353.0	364.9
50°	66.5	63.5	62.0	60.6	66.5	150.7	285.1	311.7	326.5
52.5°	44.3	42.8	42.8	41.4	48.7	127.0	257.0	280.7	295.4
55°	32.5	31.0	31.0	31.0	38.4	109.3	236.3	255.5	268.8
57.5°	25.1	25.1	25.1	23.6	32.5	93.1	211.2	221.6	231.9
60°	20.7	19.2	19.2	19.2	26.6	79.8	181.7	186.1	192.0
62.5°	16.2	16.2	16.2	16.2	22.2	70.9	156.6	156.6	159.5
65°	14.8	13.3	13.3	13.3	19.2	62.0	131.5	130.0	132.9
67.5°	11.8	11.8	11.8	11.8	16.2	53.2	107.8	106.4	109.3
70°	10.3	10.3	10.3	10.3	13.3	44.3	87.2	85.7	88.6
72.5°	8.9	8.9	8.9	8.9	11.8	36.9	69.4	69.4	70.9
75°	7.4	7.4	7.4	7.4	10.3	28.1	56.1	56.1	57.6
77.5°	5.9	5.9	5.9	5.9	7.4	22.2	42.8	41.4	41.4
80°	3.0	4.4	4.4	4.4	5.9	16.2	31.0	28.1	28.1
82.5°	1.5	3.0	3.0	3.0	5.9	11.8	20.7	19.2	19.2
85°	1.5	1.5	1.5	4.4	5.9	8.9	13.3	13.3	13.3
87.5°	0.0	1.5	3.0	5.9	7.4	7.4	8.9	7.4	7.4
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)