

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: P799880

Luminaire Tested: **LD6C55D010 EU6559050 6LBMDDWGPB**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C55D010 EU6559050 6LBMDDWGPH  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

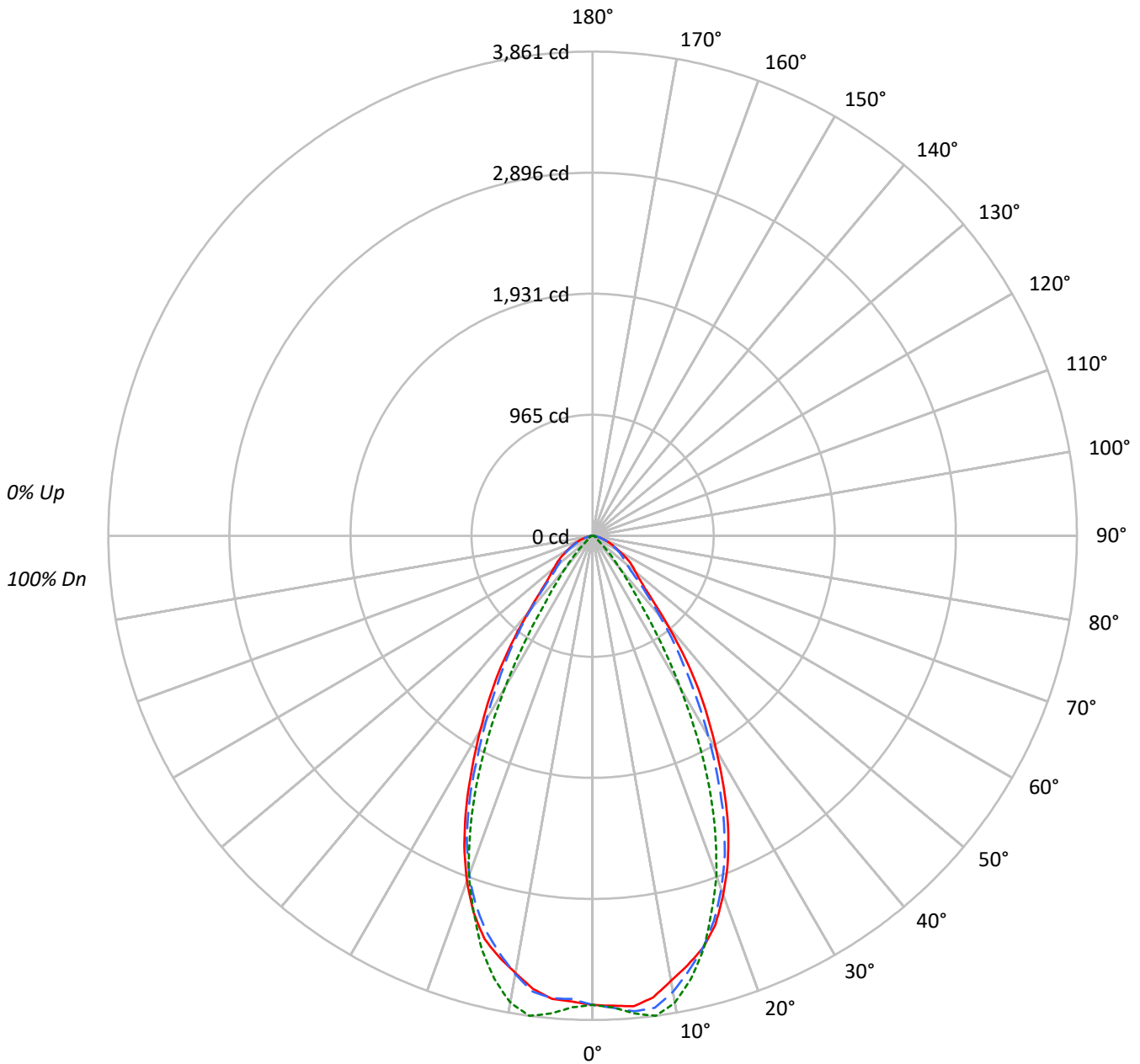
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3809.0 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.9  
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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51					51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45					45			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	205104	205104	205104
5°	207252	210395	204006
10°	200536	210389	197040
15°	193009	193764	188906
20°	177635	168312	170972
25°	154594	132721	144002
30°	124684	88184	113119
35°	96664	45468	84952
40°	66324	23558	57200
45°	45439	11800	40128
50°	37815	5032	34413
55°	34016	4368	30737
60°	26917	4177	25667
65°	22220	3697	21974
70°	18000	3350	18000
75°	13302	3622	14106
80°	7798	2999	8398
85°	5975	3585	5975



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.1	9.4
10°-20°	934.8	24.5
20°-30°	1067.0	28.0
30°-40°	707.6	18.6
40°-50°	341.3	9.0
50°-60°	209.9	5.5
60°-70°	127.0	3.3
70°-80°	53.4	1.4
80°-90°	11.8	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°	2357.9	61.9
0°-40°	3065.5	80.5
0°-60°	3616.7	95.0
0°-90°	3809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3741	3741	3741	3741	3741	
5°	3766	3806	3823	3702	3707	354
15°	3401	3401	3414	3270	3328	948
25°	2556	2470	2194	2322	2381	1159
35°	1444	1273	679	1188	1269	893
45°	586	514	152	480	518	478
55°	356	289	46	289	322	313
65°	171	164	28	154	169	172
75°	63	63	17	59	67	67
85°	10	13	6	10	10	12
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°	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4	3741.4
2.5°	3751.0	3756.7	3768.1	3770.0	3764.3	3728.1	3697.7	3709.1	3718.6
5°	3766.2	3777.6	3806.1	3832.8	3823.3	3762.4	3701.5	3699.6	3707.2
7.5°	3711.0	3737.6	3796.6	3863.2	3861.3	3756.7	3667.2	3644.4	3644.4
10°	3602.5	3627.3	3692.0	3781.4	3779.5	3648.2	3549.2	3537.8	3539.7
12.5°	3505.5	3516.9	3549.2	3619.6	3619.6	3490.2	3414.1	3425.5	3440.8
15°	3400.8	3408.4	3400.8	3423.6	3414.1	3307.5	3269.5	3305.6	3328.5
17.5°	3252.4	3256.2	3216.2	3185.7	3149.6	3083.0	3092.5	3145.8	3151.5
20°	3044.9	3069.7	2997.3	2919.3	2885.1	2822.3	2875.5	2934.5	2930.7
22.5°	2816.5	2845.1	2751.8	2622.4	2552.0	2527.3	2622.4	2675.7	2673.8
25°	2555.8	2576.8	2470.2	2289.4	2194.2	2190.4	2321.8	2376.9	2380.7
27.5°	2262.8	2270.4	2150.5	1914.5	1796.5	1825.0	1990.6	2066.7	2076.3
30°	1969.7	1965.9	1842.2	1549.1	1393.1	1471.1	1693.7	1777.5	1787.0
32.5°	1701.3	1689.9	1549.1	1198.9	1012.4	1128.5	1421.6	1509.1	1524.4
35°	1444.4	1425.4	1273.2	886.8	679.4	852.6	1187.5	1263.6	1269.4
37.5°	1176.1	1166.6	1046.7	664.2	473.9	647.0	968.7	1023.9	1018.1
40°	926.8	926.8	827.8	492.9	329.2	481.5	766.9	816.4	799.3
42.5°	727.0	736.5	652.8	363.5	234.1	357.8	607.1	652.8	633.7
45°	586.1	586.1	513.8	270.2	152.2	266.4	479.6	521.4	517.6
47.5°	496.7	489.1	416.8	197.9	83.7	199.8	403.5	454.8	452.9
50°	443.4	432.0	357.8	156.1	59.0	165.6	354.0	401.5	403.5
52.5°	401.5	384.4	321.6	138.9	51.4	144.6	321.6	359.7	359.7
55°	355.9	346.4	289.3	123.7	45.7	129.4	289.3	323.5	321.6
57.5°	300.7	298.8	258.8	112.3	41.9	114.2	258.8	279.8	272.1
60°	245.5	253.1	224.6	100.9	38.1	102.8	220.8	237.9	234.1
62.5°	205.5	215.0	196.0	89.4	32.4	91.3	186.5	203.6	199.8
65°	171.3	178.9	163.7	76.1	28.5	76.1	154.1	169.4	169.4
67.5°	140.8	146.5	135.1	62.8	24.7	62.8	125.6	138.9	140.8
70°	112.3	116.1	106.6	49.5	20.9	51.4	99.0	112.3	112.3
72.5°	87.5	89.4	83.7	40.0	19.0	40.0	76.1	87.5	87.5
75°	62.8	66.6	62.8	30.4	17.1	30.4	59.0	64.7	66.6
77.5°	36.2	45.7	45.7	24.7	13.3	22.8	41.9	43.8	43.8
80°	24.7	28.5	32.4	17.1	9.5	17.1	26.6	28.5	26.6
82.5°	17.1	19.0	19.0	11.4	7.6	11.4	17.1	19.0	17.1
85°	9.5	13.3	13.3	9.5	5.7	7.6	9.5	11.4	9.5
87.5°	5.7	7.6	9.5	7.6	5.7	5.7	5.7	5.7	3.8
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)