

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: P799782

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDSWWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799782  
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 EU6509027 6LBMDSWWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

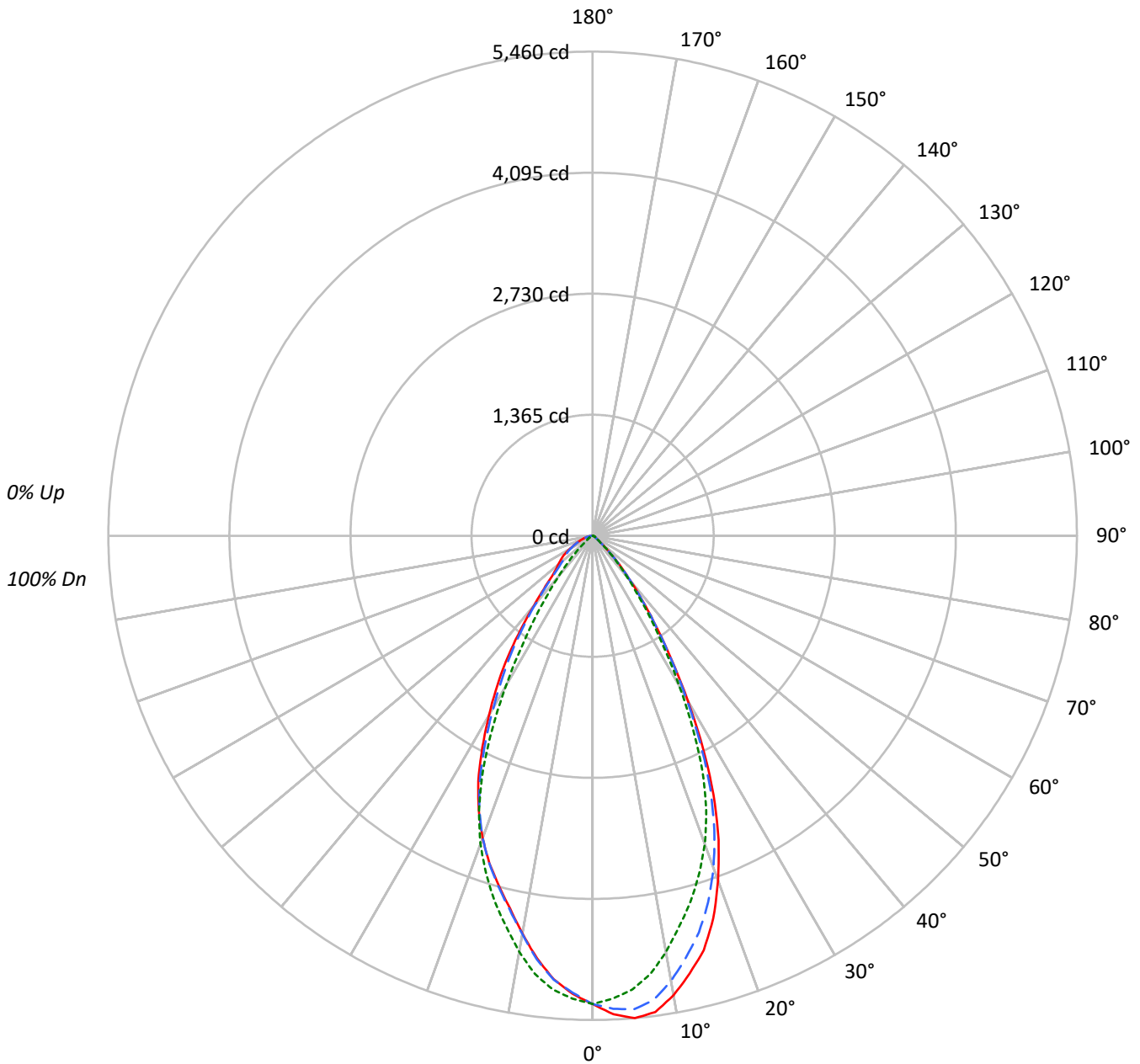
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4546.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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<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	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°	289456	289456	289456
5°	300467	282665	276270
10°	292780	265136	253474
15°	274587	242266	231795
20°	241060	215677	211558
25°	194963	177192	184493
30°	135540	123430	147649
35°	83540	75610	111434
40°	47274	42379	74010
45°	22956	21901	50509
50°	8742	8742	42932
55°	4788	5658	39626
60°	3498	4495	32465
65°	2958	3840	26592
70°	2549	3286	21911
75°	2415	3368	18809
80°	1452	2873	13670
85°	1447	5724	12894



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.4	10.6
10°-20°	1214.9	26.7
20°-30°	1367.7	30.1
30°-40°	846.9	18.6
40°-50°	337.3	7.4
50°-60°	153.5	3.4
60°-70°	88.3	1.9
70°-80°	41.9	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°	3065.9	67.4
0°-40°	3912.8	86.1
0°-60°	4403.6	96.9
0°-90°	4546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5280	5280	5280	5280	5280	
5°	5460	5360	5137	5025	5020	514
15°	4838	4629	4269	4096	4084	1339
25°	3223	3137	2929	3002	3050	1449
35°	1248	1241	1130	1574	1665	802
45°	296	296	282	615	652	251
55°	50	48	59	364	415	50
65°	23	20	30	203	205	22
75°	11	11	16	87	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°	5280.1	5280.1	5280.1	5280.1	5280.1	5280.1	5280.1	5280.1	5280.1
2.5°	5400.8	5350.7	5339.3	5296.1	5223.2	5182.2	5157.1	5138.9	5170.8
5°	5460.1	5405.4	5359.8	5271.0	5136.6	5061.4	5025.0	4995.4	5020.4
7.5°	5416.8	5339.3	5277.8	5154.8	4984.0	4867.8	4817.7	4783.5	4806.3
10°	5259.6	5166.2	5095.6	4949.8	4763.0	4624.1	4562.6	4530.7	4553.5
12.5°	5054.6	4977.2	4870.1	4710.7	4510.2	4364.4	4318.9	4293.8	4302.9
15°	4838.2	4747.1	4628.6	4469.2	4268.7	4123.0	4095.6	4079.7	4084.2
17.5°	4523.9	4435.0	4332.5	4177.6	3993.1	3874.7	3874.7	3863.3	3870.1
20°	4132.1	4084.2	3984.0	3854.2	3697.0	3589.9	3624.1	3612.7	3626.4
22.5°	3708.4	3671.9	3585.4	3478.3	3346.2	3261.9	3337.1	3334.8	3353.0
25°	3223.2	3195.9	3136.6	3045.5	2929.4	2877.0	3002.2	3002.2	3050.1
27.5°	2687.9	2660.6	2619.6	2542.1	2446.4	2430.5	2615.0	2637.8	2690.2
30°	2141.2	2123.0	2100.2	2029.6	1949.9	1979.5	2234.6	2273.3	2332.5
32.5°	1653.7	1642.3	1635.5	1571.7	1501.1	1599.1	1890.6	1940.8	2000.0
35°	1248.3	1223.2	1241.4	1193.6	1129.8	1252.8	1574.0	1617.3	1665.1
37.5°	920.3	902.0	918.0	883.8	826.9	961.3	1264.2	1291.6	1323.4
40°	660.6	644.6	658.3	637.8	592.2	717.5	990.9	1020.5	1034.2
42.5°	469.2	441.9	455.6	439.6	416.9	539.9	779.0	806.4	810.9
45°	296.1	287.0	296.1	287.0	282.5	400.9	615.0	640.1	651.5
47.5°	180.0	168.6	168.6	164.0	168.6	296.1	508.0	544.4	562.6
50°	102.5	97.9	95.7	93.4	102.5	232.3	439.6	480.6	503.4
52.5°	68.3	66.1	66.1	63.8	75.2	195.9	396.4	432.8	455.6
55°	50.1	47.8	47.8	47.8	59.2	168.6	364.5	394.1	414.6
57.5°	38.7	38.7	38.7	36.4	50.1	143.5	325.7	341.7	357.6
60°	31.9	29.6	29.6	29.6	41.0	123.0	280.2	287.0	296.1
62.5°	25.1	25.1	25.1	25.1	34.2	109.3	241.5	241.5	246.0
65°	22.8	20.5	20.5	20.5	29.6	95.7	202.7	200.5	205.0
67.5°	18.2	18.2	18.2	18.2	25.1	82.0	166.3	164.0	168.6
70°	15.9	15.9	15.9	15.9	20.5	68.3	134.4	132.1	136.7
72.5°	13.7	13.7	13.7	13.7	18.2	56.9	107.1	107.1	109.3
75°	11.4	11.4	11.4	11.4	15.9	43.3	86.6	86.6	88.8
77.5°	9.1	9.1	9.1	9.1	11.4	34.2	66.1	63.8	63.8
80°	4.6	6.8	6.8	6.8	9.1	25.1	47.8	43.3	43.3
82.5°	2.3	4.6	4.6	4.6	9.1	18.2	31.9	29.6	29.6
85°	2.3	2.3	2.3	6.8	9.1	13.7	20.5	20.5	20.5
87.5°	0.0	2.3	4.6	9.1	11.4	11.4	13.7	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)