

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: P245747

Luminaire Tested: **LD8B50D010 ER8B50827 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50827 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5116.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

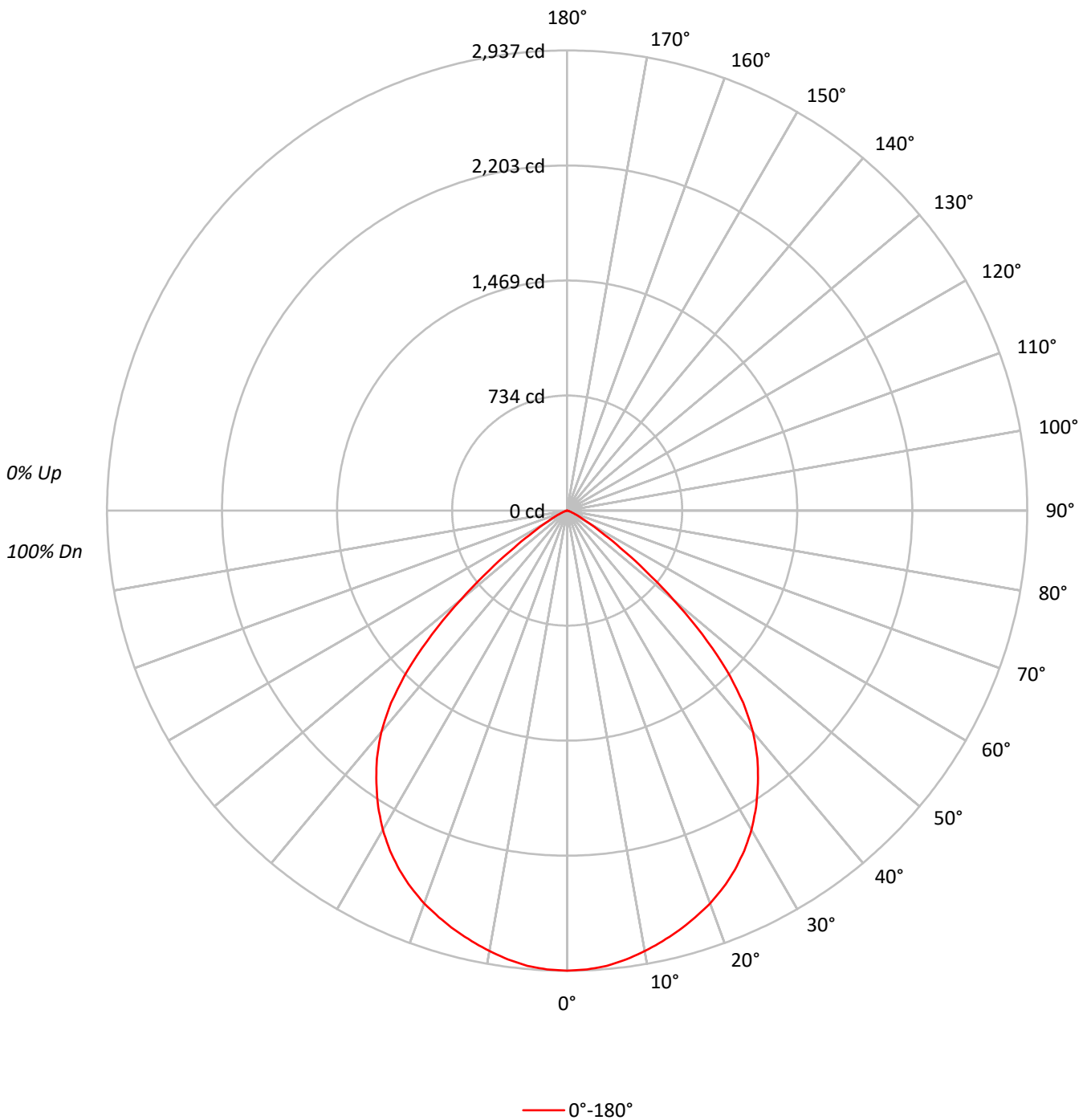
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°
0°	90554
5°	90278
10°	89390
15°	88471
20°	87545
25°	86112
30°	83758
35°	79937
40°	74325
45°	62758
50°	42609
55°	22257
60°	9985
65°	4874
70°	1956
75°	1191
80°	888
85°	601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.4	5.4
10°-20°	781.7	15.3
20°-30°	1163.6	22.7
30°-40°	1322.8	25.9
40°-50°	1081.6	21.1
50°-60°	403.2	7.9
60°-70°	73.7	1.4
70°-80°	11.4	0.2
80°-90°	1.6	0.0
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°	2221.7	43.4
0°-40°	3544.5	69.3
0°-60°	5029.3	98.3
0°-90°	5116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2937	
5°	2916	276
15°	2771	782
25°	2531	1164
35°	2124	1323
45°	1439	1082
55°	414	403
65°	67	74
75°	10	11
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2936.6
2.5°	2931.6
5°	2916.5
7.5°	2889.8
10°	2854.8
12.5°	2814.7
15°	2771.3
17.5°	2721.2
20°	2667.8
22.5°	2604.4
25°	2530.9
27.5°	2447.4
30°	2352.3
32.5°	2243.8
35°	2123.5
37.5°	1995.0
40°	1846.4
42.5°	1662.8
45°	1439.1
47.5°	1170.3
50°	888.2
52.5°	626.0
55°	414.0
57.5°	260.4
60°	161.9
62.5°	103.5
65°	66.8
67.5°	38.4
70°	21.7
72.5°	13.4
75°	10.0
77.5°	6.7
80°	5.0
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0

(END OF REPORT)