

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: P244901

Luminaire Tested: **LD8B50D010 ER8B50840 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50840 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5879.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

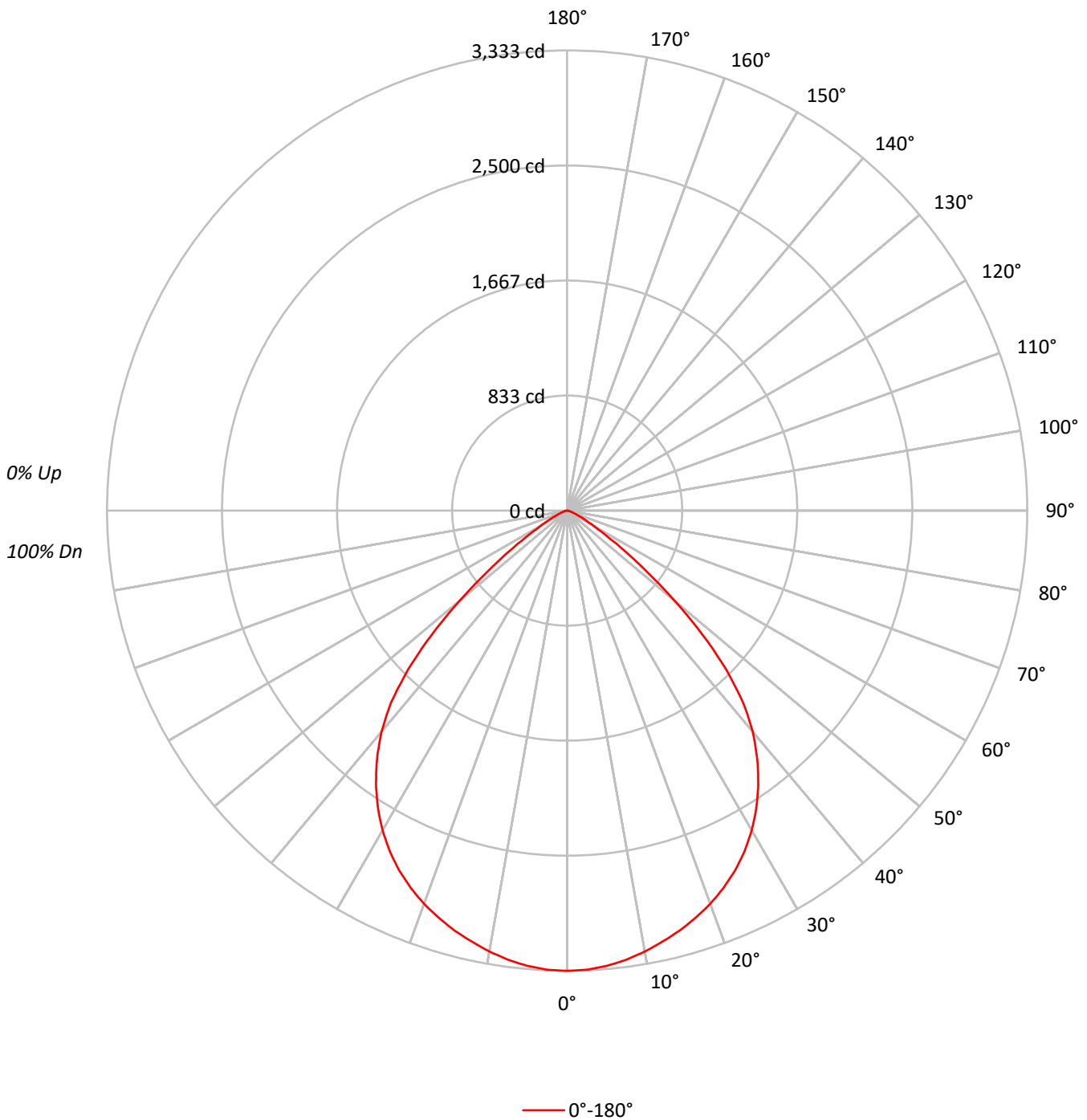
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°
0°	102787
5°	102467
10°	101548
15°	100542
20°	99460
25°	97891
30°	95202
35°	90866
40°	84207
45°	71100
50°	48779
55°	26902
60°	13525
65°	7610
70°	4147
75°	2955
80°	1882
85°	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.8	5.3
10°-20°	888.2	15.1
20°-30°	1322.4	22.5
30°-40°	1502.1	25.6
40°-50°	1227.9	20.9
50°-60°	481.1	8.2
60°-70°	112.1	1.9
70°-80°	27.0	0.5
80°-90°	4.3	0.1
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°	2524.4	42.9
0°-40°	4026.5	68.5
0°-60°	5735.5	97.6
0°-90°	5879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3333	
5°	3310	314
15°	3149	888
25°	2877	1322
35°	2414	1502
45°	1630	1228
55°	500	481
65°	104	112
75°	25	27
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3333.3
2.5°	3328.0
5°	3310.3
7.5°	3280.3
10°	3243.1
12.5°	3197.1
15°	3149.4
17.5°	3092.8
20°	3030.9
22.5°	2958.4
25°	2877.1
27.5°	2781.6
30°	2673.7
32.5°	2551.7
35°	2413.8
37.5°	2261.7
40°	2091.9
42.5°	1886.8
45°	1630.4
47.5°	1329.8
50°	1016.8
52.5°	730.3
55°	500.4
57.5°	327.1
60°	219.3
62.5°	150.3
65°	104.3
67.5°	69.0
70°	46.0
72.5°	31.8
75°	24.8
77.5°	17.7
80°	10.6
82.5°	5.3
85°	3.5
87.5°	1.8
90°	0.0

(END OF REPORT)