

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: P244240

Luminaire Tested: **LD8B40D010 ER8B40830 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40830 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4242.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

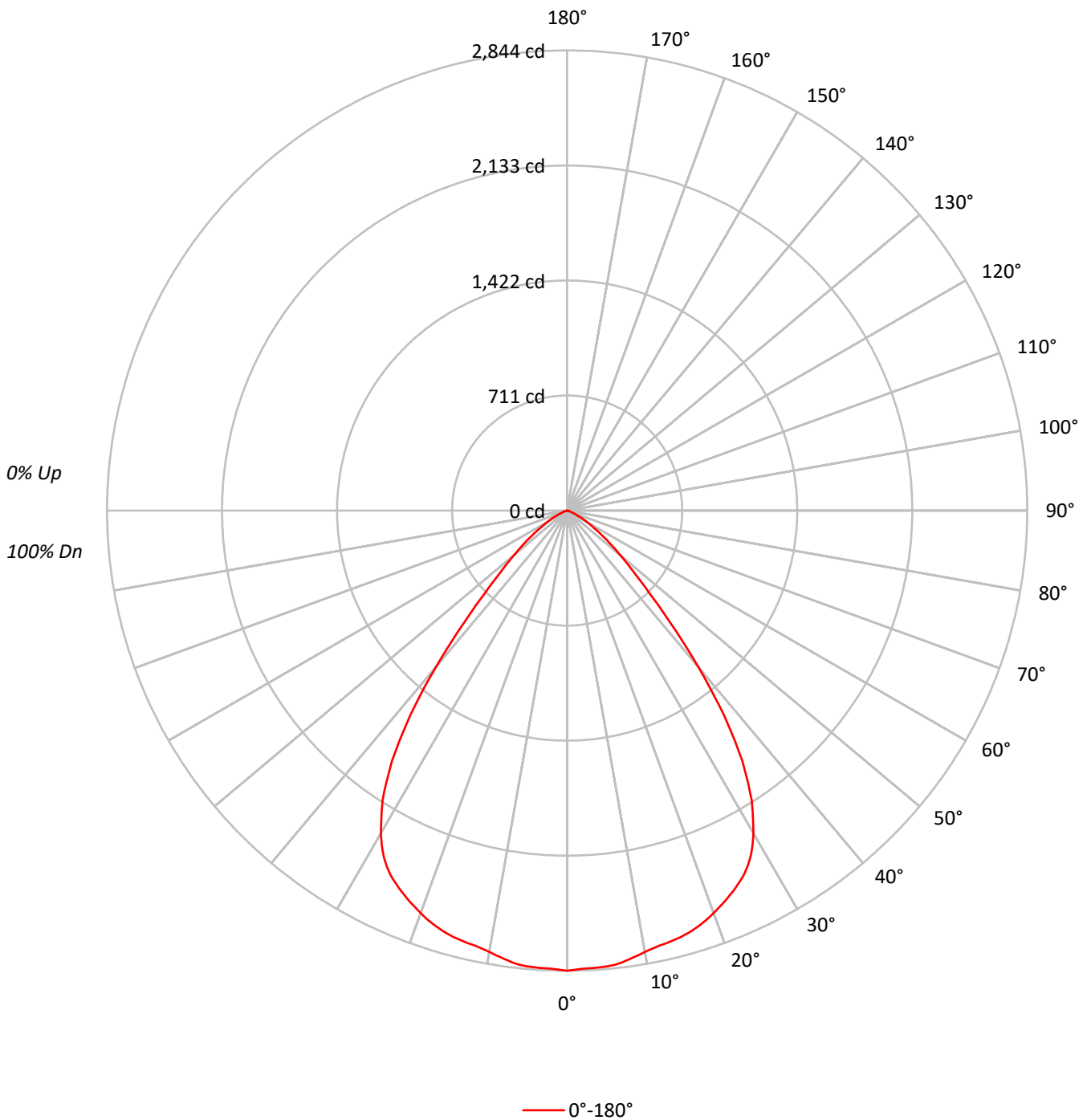
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

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

	0°
0°	87711
5°	87517
10°	86722
15°	87047
20°	86862
25°	86016
30°	81984
35°	70986
40°	50635
45°	31119
50°	20528
55°	13580
60°	8696
65°	4743
70°	2317
75°	1168
80°	657
85°	425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.0	6.3
10°-20°	769.1	18.1
20°-30°	1157.4	27.3
30°-40°	1145.9	27.0
40°-50°	582.3	13.7
50°-60°	234.6	5.5
60°-70°	71.1	1.7
70°-80°	12.2	0.3
80°-90°	1.5	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°	2194.5	51.7
0°-40°	3340.4	78.7
0°-60°	4157.2	98.0
0°-90°	4242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2844	
5°	2827	268
15°	2727	769
25°	2528	1157
35°	1886	1146
45°	714	582
55°	253	235
65°	65	71
75°	10	12
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2844.4
1°	2838.3
2°	2833.4
3°	2832.2
4°	2830.9
5°	2827.3
6°	2822.4
7°	2812.6
8°	2797.8
9°	2784.4
10°	2769.6
11°	2757.4
12°	2748.8
13°	2742.7
14°	2735.3
15°	2726.7
16°	2715.7
17°	2702.2
18°	2686.3
19°	2667.9
20°	2647.0
21°	2625.0
22°	2602.9
23°	2579.6
24°	2555.1
25°	2528.1
26°	2498.7
27°	2460.7
28°	2416.5
29°	2363.8
30°	2302.5
32.5°	2123.5
35°	1885.7
37.5°	1589.0
40°	1257.9
42.5°	950.2
45°	713.6
47.5°	545.6
50°	427.9
52.5°	332.3
55°	252.6
57.5°	187.6
60°	141.0
62.5°	100.5
65°	65.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	40.5
70°	25.7
72.5°	15.9
75°	9.8
77.5°	6.1
80°	3.7
82.5°	2.5
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)