

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: P244246

Luminaire Tested: **LD8B40D010 ER8B40835 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244246  
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 ER8B40835 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4411.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 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

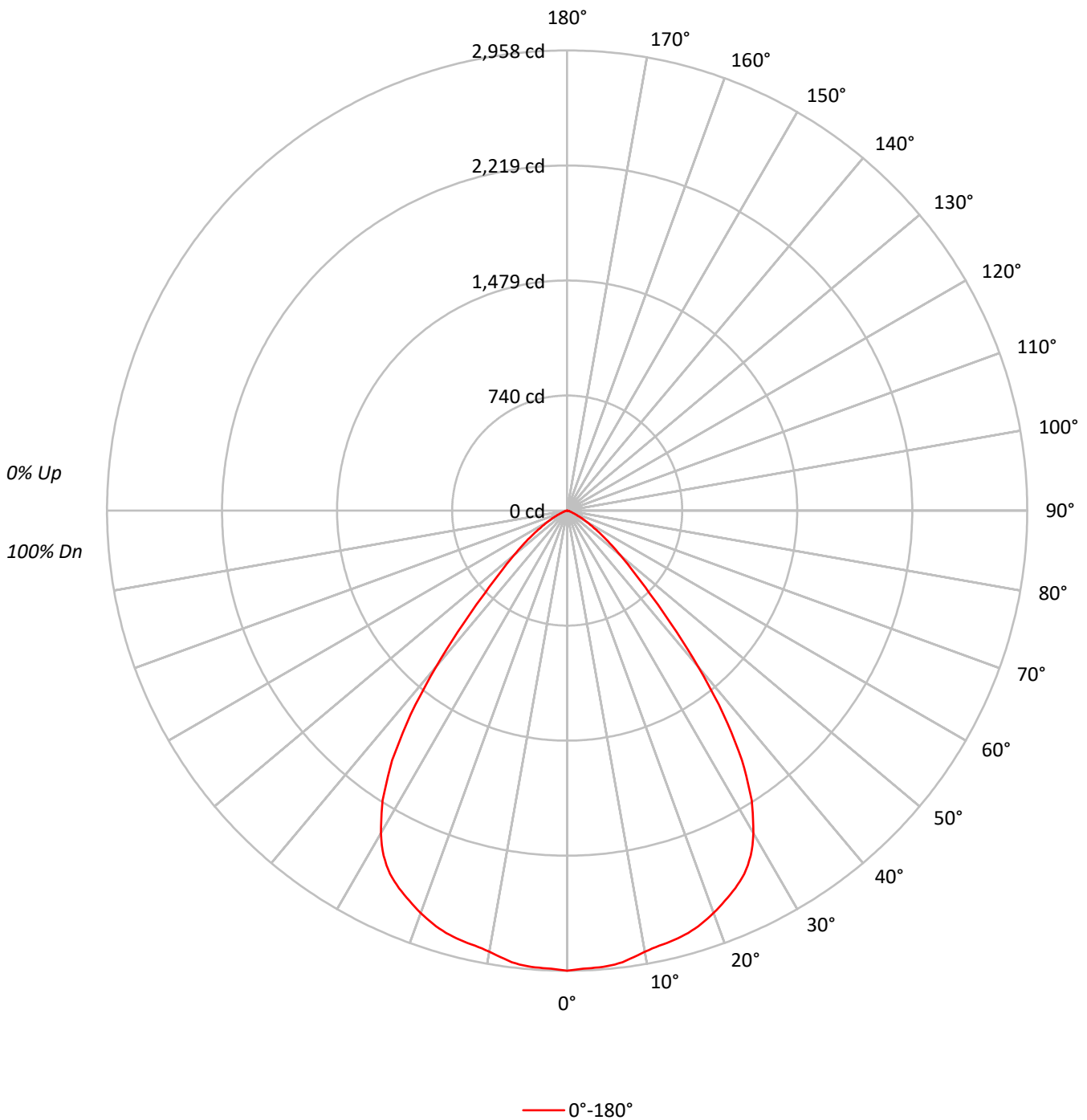
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	91208
5°	91002
10°	90179
15°	90518
20°	90324
25°	89443
30°	85250
35°	73813
40°	52652
45°	32358
50°	21343
55°	14118
60°	9041
65°	4932
70°	2416
75°	1215
80°	675
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.7	6.3
10°-20°	799.7	18.1
20°-30°	1203.5	27.3
30°-40°	1191.5	27.0
40°-50°	605.4	13.7
50°-60°	243.9	5.5
60°-70°	73.9	1.7
70°-80°	12.7	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°	2281.9	51.7
0°-40°	3473.5	78.7
0°-60°	4322.8	98.0
0°-90°	4411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4411.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2958	
5°	2940	279
15°	2835	800
25°	2629	1204
35°	1961	1192
45°	742	605
55°	263	244
65°	68	74
75°	10	13
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2957.8
1°	2951.4
2°	2946.3
3°	2945.0
4°	2943.7
5°	2939.9
6°	2934.8
7°	2924.6
8°	2909.3
9°	2895.3
10°	2880.0
11°	2867.2
12°	2858.3
13°	2851.9
14°	2844.3
15°	2835.4
16°	2823.9
17°	2809.9
18°	2793.3
19°	2774.2
20°	2752.5
21°	2729.5
22°	2706.6
23°	2682.4
24°	2656.9
25°	2628.8
26°	2598.2
27°	2558.7
28°	2512.8
29°	2458.0
30°	2394.2
32.5°	2208.1
35°	1960.8
37.5°	1652.3
40°	1308.0
42.5°	988.0
45°	742.0
47.5°	567.3
50°	444.9
52.5°	345.5
55°	262.6
57.5°	195.1
60°	146.6
62.5°	104.5
65°	67.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	42.1
70°	26.8
72.5°	16.6
75°	10.2
77.5°	6.4
80°	3.8
82.5°	2.5
85°	1.3
87.5°	0.0
90°	0.0

(END OF REPORT)