

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: P244378

Luminaire Tested: **LD8B40D010 ER8B40827 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B40827 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4069.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

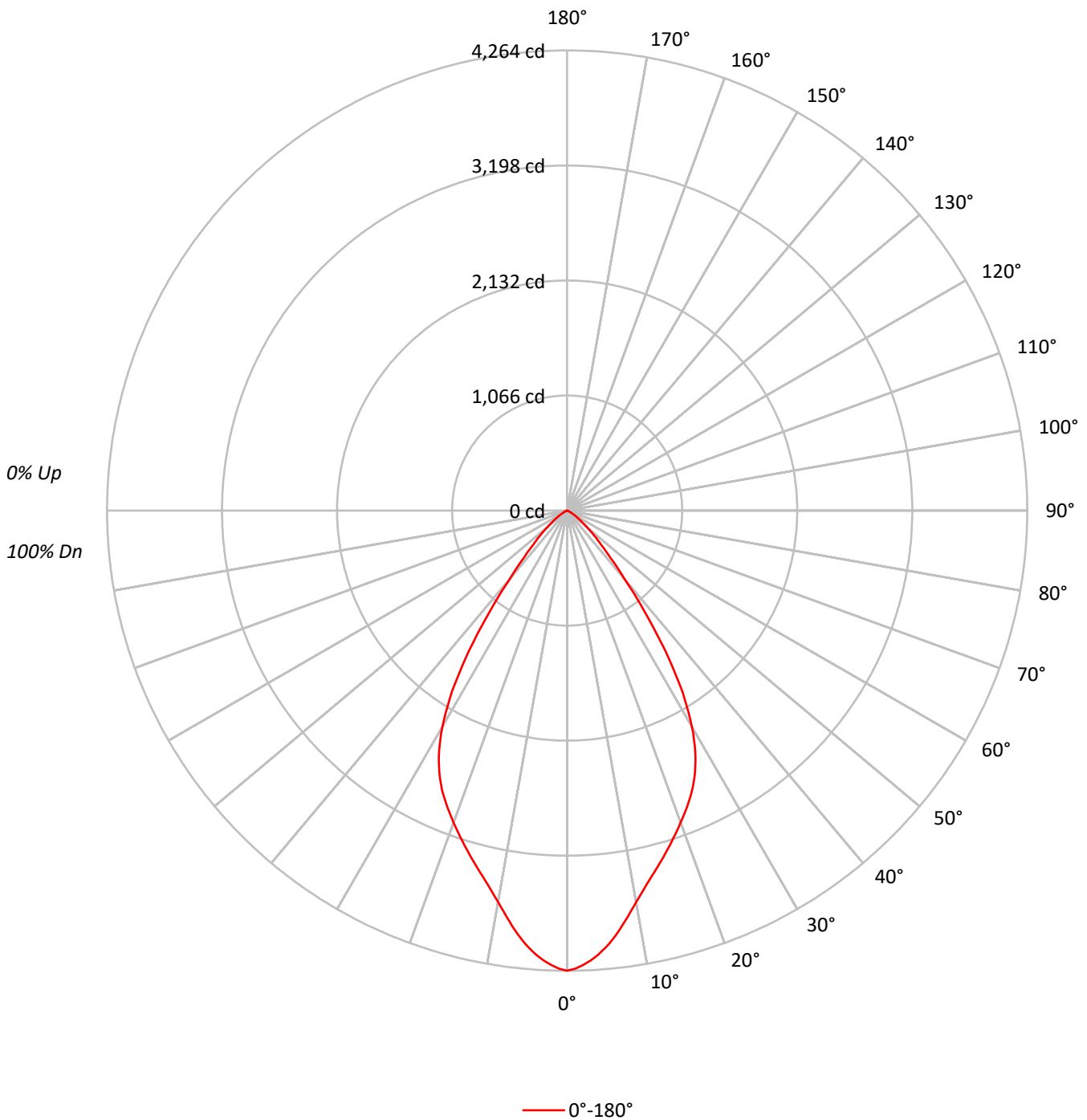
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

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

	0°
0°	131480
5°	125903
10°	115366
15°	107348
20°	100966
25°	94465
30°	82383
35°	59542
40°	33379
45°	19205
50°	11753
55°	6688
60°	3478
65°	1773
70°	965
75°	584
80°	337
85°	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.5	9.2
10°-20°	945.3	23.2
20°-30°	1261.3	31.0
30°-40°	972.2	23.9
40°-50°	362.5	8.9
50°-60°	118.5	2.9
60°-70°	27.3	0.7
70°-80°	5.5	0.1
80°-90°	0.8	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°	2582.1	63.5
0°-40°	3554.3	87.4
0°-60°	4035.4	99.2
0°-90°	4069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4264	
5°	4067	376
15°	3363	945
25°	2776	1261
35°	1582	972
45°	440	363
55°	124	119
65°	24	27
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4263.8
1°	4245.3
2°	4214.2
3°	4174.3
4°	4125.7
5°	4067.4
6°	4001.3
7°	3925.5
8°	3844.8
9°	3761.2
10°	3684.4
11°	3610.5
12°	3541.5
13°	3478.3
14°	3420.0
15°	3362.6
16°	3304.3
17°	3247.9
18°	3189.6
19°	3132.2
20°	3076.8
21°	3019.4
22°	2964.0
23°	2905.7
24°	2844.5
25°	2776.4
26°	2701.6
27°	2618.9
28°	2527.5
29°	2425.5
30°	2313.7
32.5°	1986.1
35°	1581.7
37.5°	1171.4
40°	829.2
42.5°	594.0
45°	440.4
47.5°	331.5
50°	245.0
52.5°	175.0
55°	124.4
57.5°	85.5
60°	56.4
62.5°	36.9
65°	24.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	16.5
70°	10.7
72.5°	6.8
75°	4.9
77.5°	2.9
80°	1.9
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)