

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: P244384

Luminaire Tested: **LD8B40D010 ER8B40830 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244384  
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 ER8B40830 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4170.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

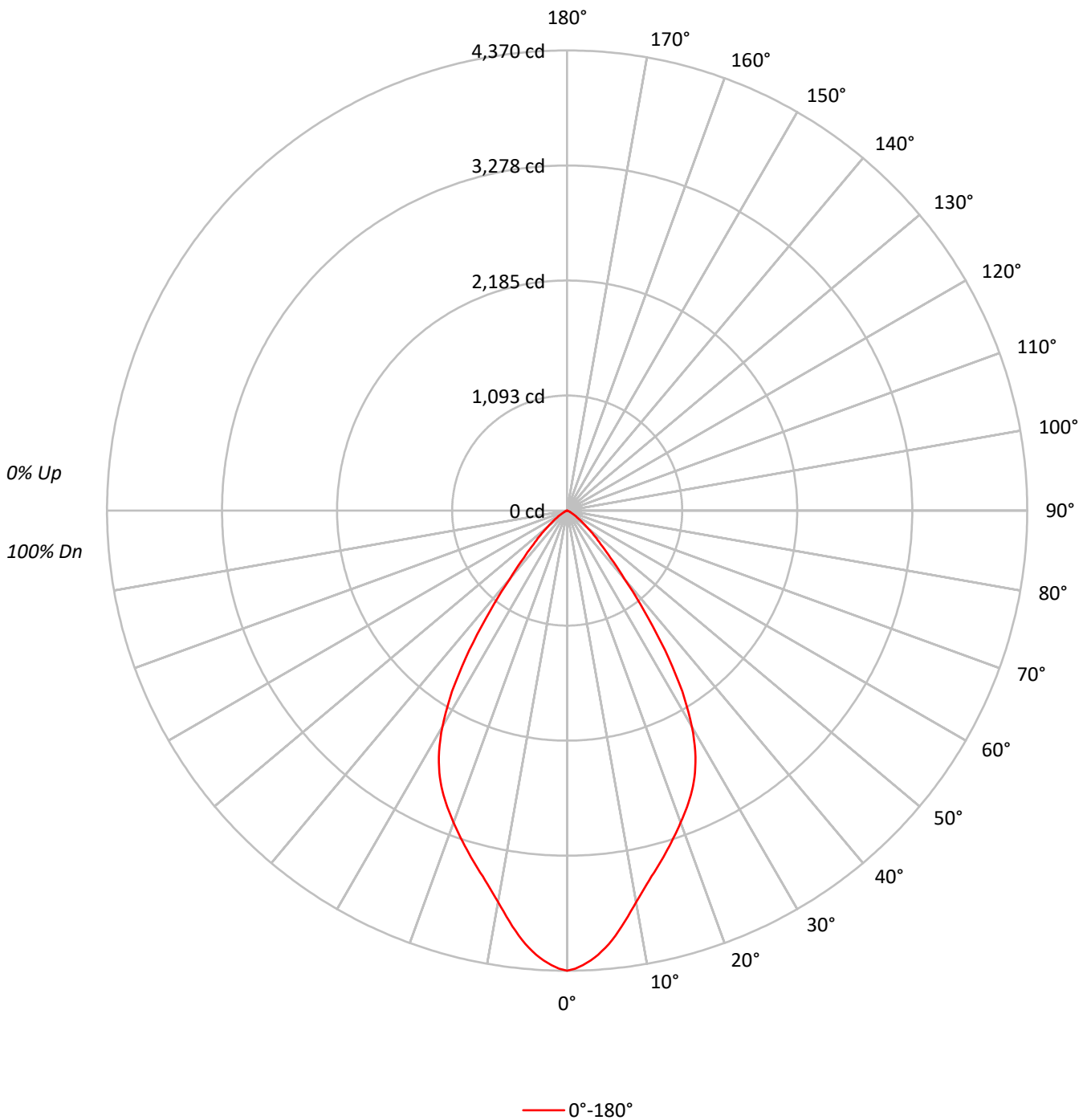
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	134742
5°	129029
10°	118228
15°	110014
20°	103473
25°	96809
30°	84427
35°	61017
40°	34208
45°	19681
50°	12046
55°	6855
60°	3565
65°	1817
70°	992
75°	596
80°	355
85°	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.9	9.2
10°-20°	968.7	23.2
20°-30°	1292.6	31.0
30°-40°	996.3	23.9
40°-50°	371.5	8.9
50°-60°	121.5	2.9
60°-70°	28.0	0.7
70°-80°	5.7	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°	2646.2	63.5
0°-40°	3642.6	87.4
0°-60°	4135.5	99.2
0°-90°	4170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4170.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4370	
5°	4168	385
15°	3446	969
25°	2845	1293
35°	1621	996
45°	451	371
55°	128	121
65°	25	28
75°	5	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4369.6
1°	4350.7
2°	4318.8
3°	4277.9
4°	4228.1
5°	4168.4
6°	4100.6
7°	4022.9
8°	3940.2
9°	3854.5
10°	3775.8
11°	3700.1
12°	3629.4
13°	3564.6
14°	3504.9
15°	3446.1
16°	3386.3
17°	3328.5
18°	3268.7
19°	3210.0
20°	3153.2
21°	3094.4
22°	3037.6
23°	2977.8
24°	2915.1
25°	2845.3
26°	2768.6
27°	2683.9
28°	2590.3
29°	2485.7
30°	2371.1
32.5°	2035.4
35°	1620.9
37.5°	1200.5
40°	849.8
42.5°	608.7
45°	451.3
47.5°	339.7
50°	251.1
52.5°	179.3
55°	127.5
57.5°	87.7
60°	57.8
62.5°	37.9
65°	24.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	16.9
70°	11.0
72.5°	7.0
75°	5.0
77.5°	3.0
80°	2.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)