

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: P244420

Luminaire Tested: **LSR8B40D010 EC8B40935 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244420  
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: LSR8B40D010 EC8B40935 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3698.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 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

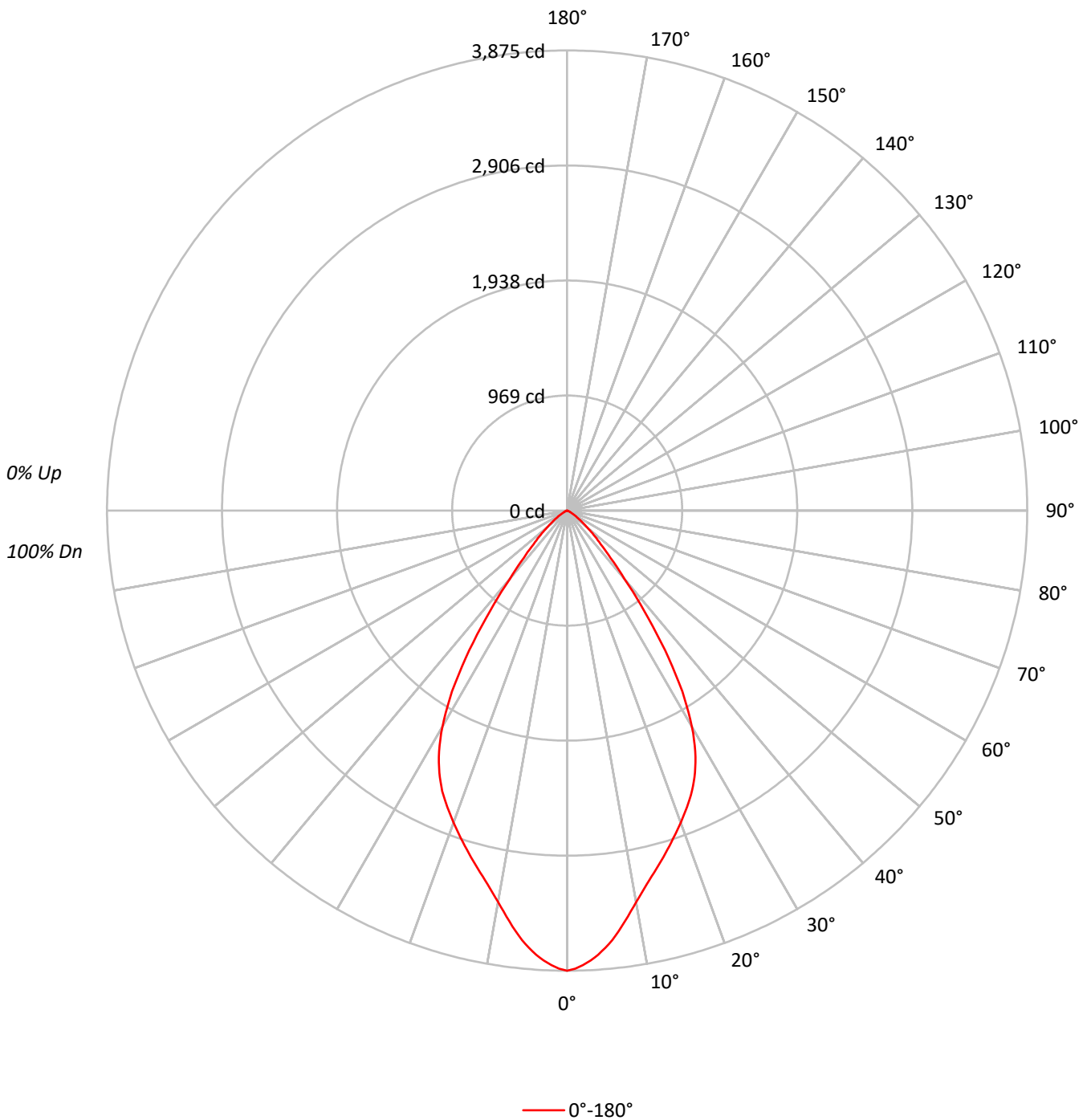
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	119491
5°	114422
10°	104845
15°	97560
20°	91761
25°	85853
30°	74870
35°	54110
40°	30335
45°	17452
50°	10679
55°	6080
60°	3158
65°	1613
70°	875
75°	524
80°	320
85°	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.3	9.2
10°-20°	859.1	23.2
20°-30°	1146.3	31.0
30°-40°	883.5	23.9
40°-50°	329.4	8.9
50°-60°	107.7	2.9
60°-70°	24.8	0.7
70°-80°	5.0	0.1
80°-90°	0.7	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°	2346.7	63.5
0°-40°	3230.2	87.4
0°-60°	3667.4	99.2
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3875	
5°	3696	341
15°	3056	859
25°	2523	1146
35°	1437	884
45°	400	329
55°	113	108
65°	22	25
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3875.0
1°	3858.2
2°	3830.0
3°	3793.7
4°	3749.6
5°	3696.5
6°	3636.5
7°	3567.6
8°	3494.2
9°	3418.2
10°	3348.4
11°	3281.3
12°	3218.6
13°	3161.1
14°	3108.1
15°	3056.0
16°	3003.0
17°	2951.8
18°	2898.7
19°	2846.6
20°	2796.3
21°	2744.1
22°	2693.8
23°	2640.8
24°	2585.1
25°	2523.3
26°	2455.2
27°	2380.1
28°	2297.1
29°	2204.3
30°	2102.7
32.5°	1805.0
35°	1437.4
37.5°	1064.6
40°	753.6
42.5°	539.8
45°	400.2
47.5°	301.3
50°	222.6
52.5°	159.0
55°	113.1
57.5°	77.7
60°	51.2
62.5°	33.6
65°	22.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	15.0
70°	9.7
72.5°	6.2
75°	4.4
77.5°	2.7
80°	1.8
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0

(END OF REPORT)