

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: P244432

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244432  
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 EC8B40950 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3999.1 lumens  
Efficiency: N/A  
Efficacy: 97.8 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

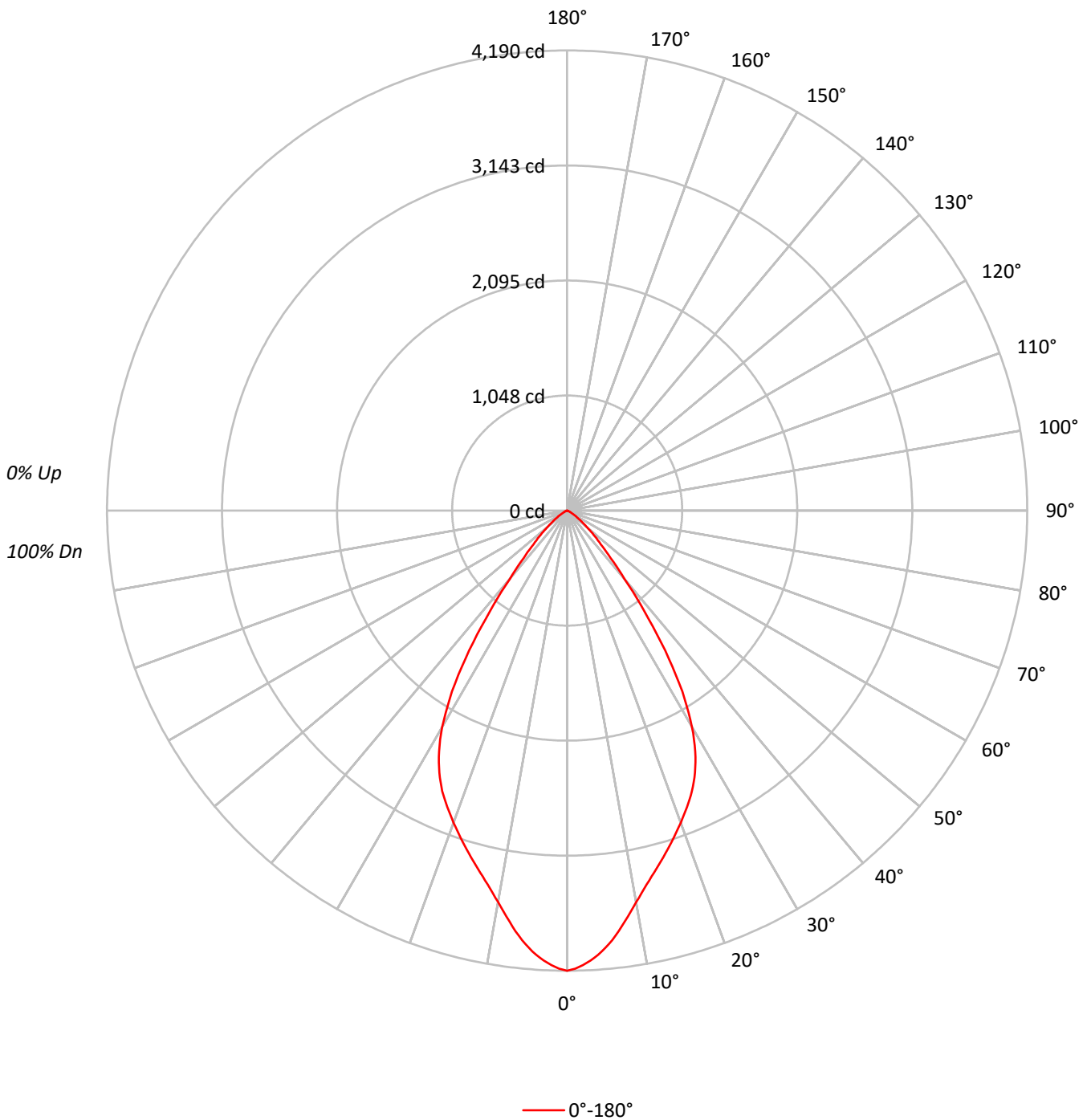
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	129216
5°	123736
10°	113381
15°	105503
20°	99230
25°	92838
30°	80966
35°	58514
40°	32807
45°	18874
50°	11552
55°	6575
60°	3417
65°	1744
70°	947
75°	572
80°	337
85°	354



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.1	9.2
10°-20°	929.0	23.2
20°-30°	1239.6	31.0
30°-40°	955.5	23.9
40°-50°	356.3	8.9
50°-60°	116.5	2.9
60°-70°	26.9	0.7
70°-80°	5.4	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°	2537.7	63.5
0°-40°	3493.2	87.4
0°-60°	3966.0	99.2
0°-90°	3999.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4190	
5°	3997	369
15°	3305	929
25°	2729	1240
35°	1554	955
45°	433	356
55°	122	117
65°	24	27
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4190.4
1°	4172.3
2°	4141.7
3°	4102.5
4°	4054.8
5°	3997.4
6°	3932.5
7°	3857.9
8°	3778.6
9°	3696.5
10°	3621.0
11°	3548.4
12°	3480.6
13°	3418.5
14°	3361.1
15°	3304.8
16°	3247.4
17°	3192.0
18°	3134.7
19°	3078.3
20°	3023.9
21°	2967.5
22°	2913.0
23°	2855.7
24°	2795.5
25°	2728.6
26°	2655.1
27°	2573.9
28°	2484.1
29°	2383.7
30°	2273.9
32.5°	1951.9
35°	1554.4
37.5°	1151.3
40°	815.0
42.5°	583.8
45°	432.8
47.5°	325.8
50°	240.8
52.5°	172.0
55°	122.3
57.5°	84.1
60°	55.4
62.5°	36.3
65°	23.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	16.2
70°	10.5
72.5°	6.7
75°	4.8
77.5°	2.9
80°	1.9
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)