

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: P243856

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40950 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4282.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

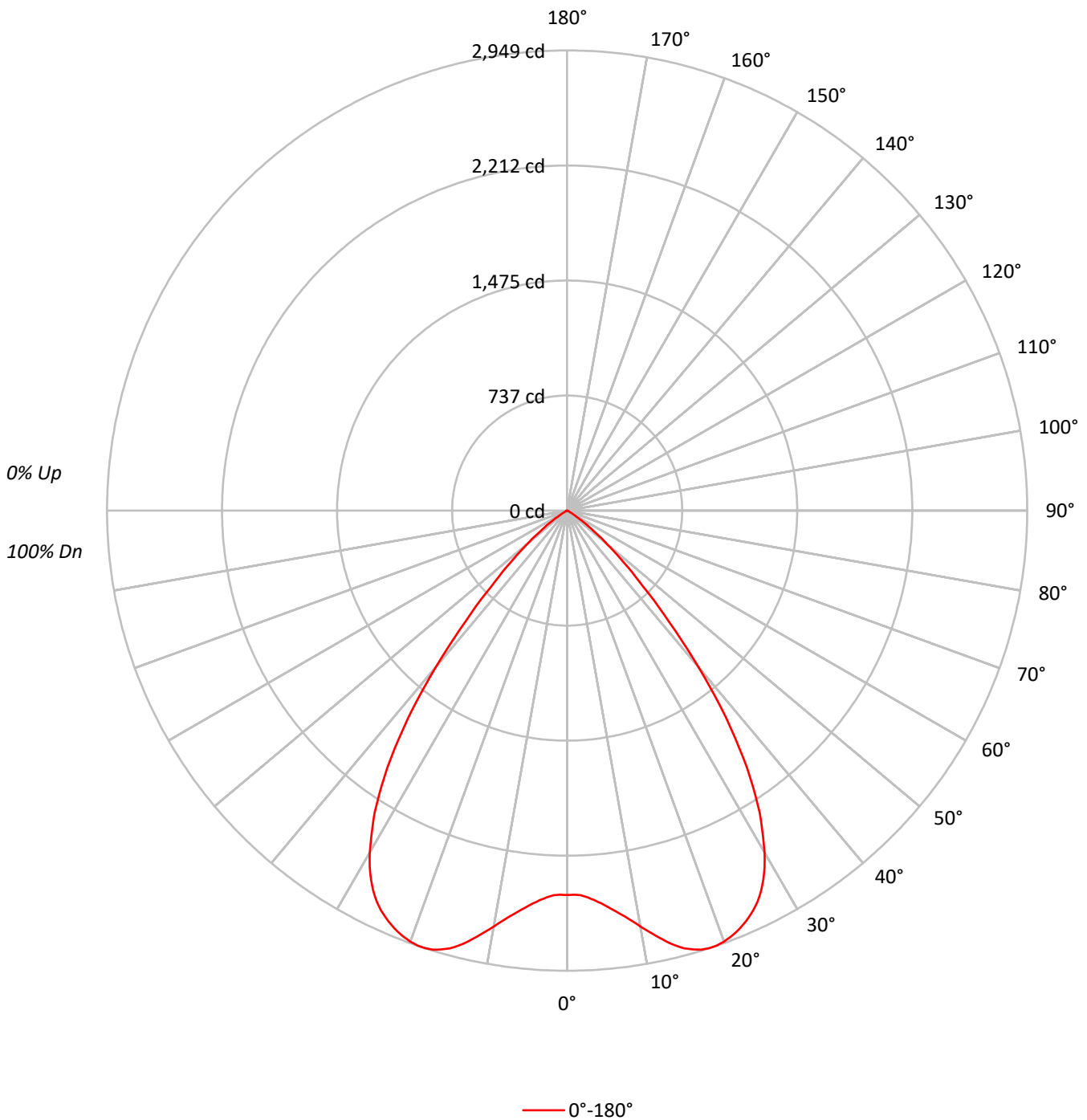
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

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

	0°
0°	75971
5°	78221
10°	84737
15°	92714
20°	96457
25°	96104
30°	90146
35°	75590
40°	52628
45°	30143
50°	16186
55°	6677
60°	1659
65°	430
70°	207
75°	143
80°	213
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.0	5.8
10°-20°	818.5	19.1
20°-30°	1287.9	30.1
30°-40°	1225.1	28.6
40°-50°	564.8	13.2
50°-60°	128.3	3.0
60°-70°	8.4	0.2
70°-80°	1.7	0.0
80°-90°	0.2	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°	2353.5	55.0
0°-40°	3578.6	83.6
0°-60°	4271.7	99.8
0°-90°	4282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2464	
5°	2527	247
15°	2904	819
25°	2825	1288
35°	2008	1225
45°	691	565
55°	124	128
65°	6	8
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2463.7
1°	2462.6
2°	2467.2
3°	2481.3
4°	2502.4
5°	2527.0
6°	2557.5
7°	2590.3
8°	2624.2
9°	2664.1
10°	2706.2
11°	2748.4
12°	2792.9
13°	2835.1
14°	2873.8
15°	2904.2
16°	2926.5
17°	2941.7
18°	2948.7
19°	2947.6
20°	2939.4
21°	2925.3
22°	2907.7
23°	2884.3
24°	2857.4
25°	2824.6
26°	2785.9
27°	2736.7
28°	2678.1
29°	2610.2
30°	2531.7
32.5°	2296.2
35°	2008.0
37.5°	1672.9
40°	1307.4
42.5°	966.5
45°	691.2
47.5°	489.7
50°	337.4
52.5°	215.6
55°	124.2
57.5°	62.1
60°	26.9
62.5°	10.5
65°	5.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.5
70°	2.3
72.5°	2.3
75°	1.2
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)