

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: P243802

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243802  
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 EC8B40827 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4356.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

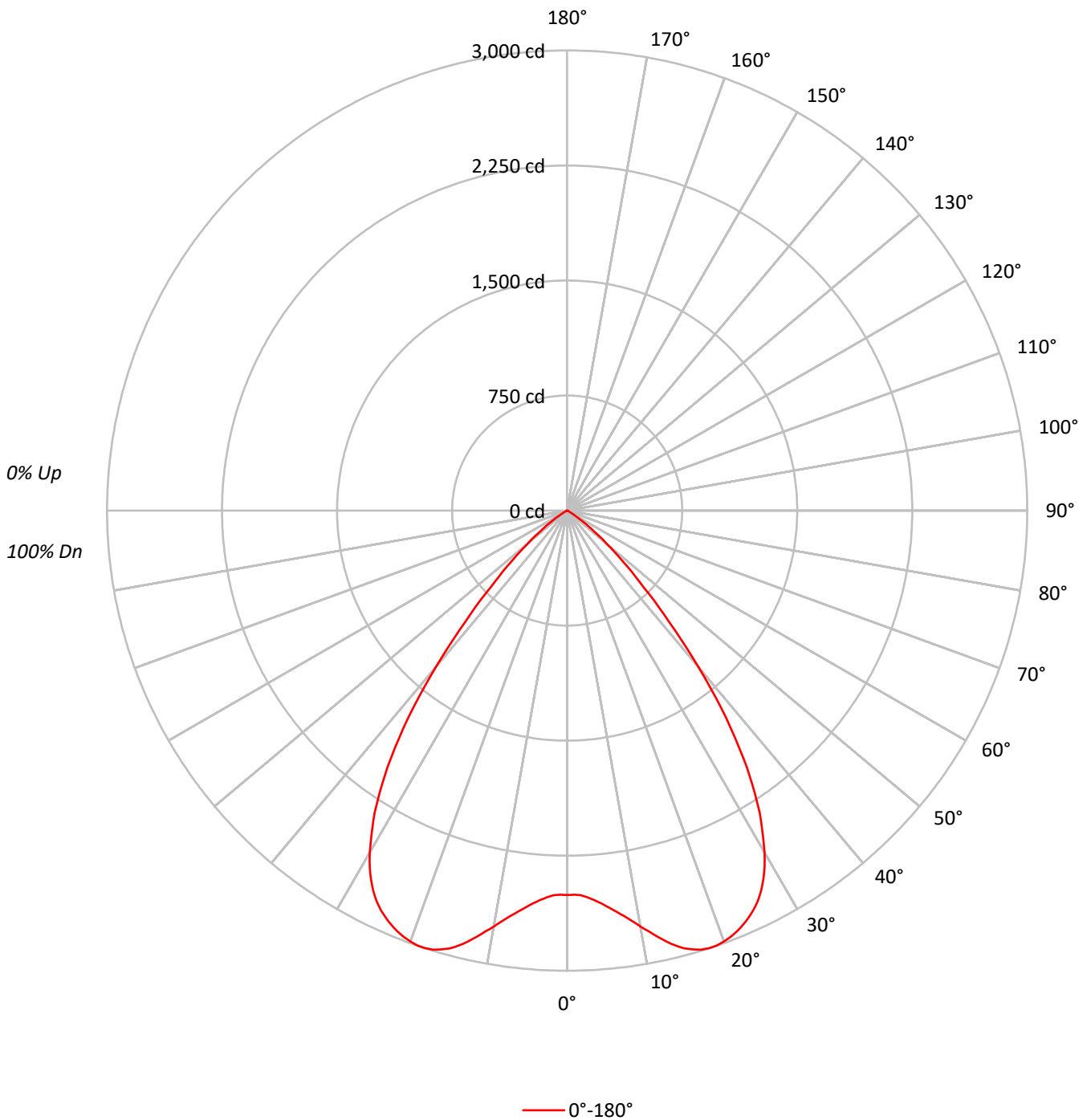
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	77285
5°	79574
10°	86202
15°	94317
20°	98124
25°	97765
30°	91702
35°	76896
40°	53538
45°	30662
50°	16464
55°	6790
60°	1690
65°	438
70°	216
75°	143
80°	213
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.3	5.8
10°-20°	832.7	19.1
20°-30°	1310.2	30.1
30°-40°	1246.3	28.6
40°-50°	574.5	13.2
50°-60°	130.5	3.0
60°-70°	8.6	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°	2394.2	55.0
0°-40°	3640.4	83.6
0°-60°	4345.5	99.8
0°-90°	4356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2506	
5°	2571	251
15°	2954	833
25°	2873	1310
35°	2043	1246
45°	703	575
55°	126	131
65°	6	9
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2506.3
1°	2505.1
2°	2509.9
3°	2524.2
4°	2545.6
5°	2570.7
6°	2601.6
7°	2635.0
8°	2669.6
9°	2710.1
10°	2753.0
11°	2795.9
12°	2841.2
13°	2884.1
14°	2923.4
15°	2954.4
16°	2977.1
17°	2992.6
18°	2999.7
19°	2998.5
20°	2990.2
21°	2975.9
22°	2958.0
23°	2934.2
24°	2906.7
25°	2873.4
26°	2834.0
27°	2784.0
28°	2724.4
29°	2655.3
30°	2575.4
32.5°	2335.9
35°	2042.7
37.5°	1701.9
40°	1330.0
42.5°	983.2
45°	703.1
47.5°	498.2
50°	343.2
52.5°	219.3
55°	126.3
57.5°	63.2
60°	27.4
62.5°	10.7
65°	6.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.6
70°	2.4
72.5°	2.4
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)