

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: P244438

Luminaire Tested: **LSR8B40D010 EC8B40927 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244438  
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 EC8B40927 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3397.4 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

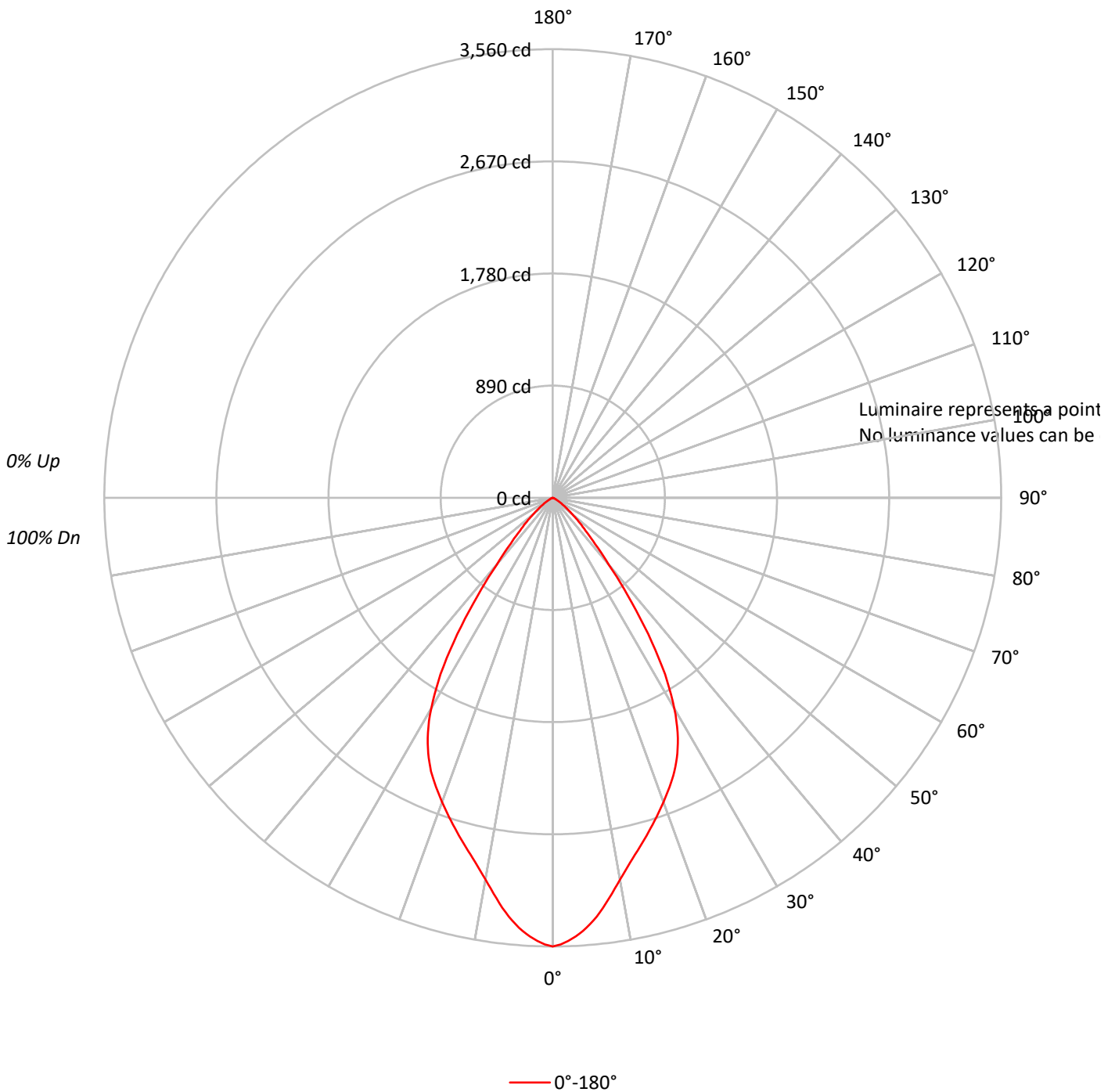
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.6	9.2
10°-20°	789.3	23.2
20°-30°	1053.1	31.0
30°-40°	811.8	23.9
40°-50°	302.7	8.9
50°-60°	99.0	2.9
60°-70°	22.8	0.7
70°-80°	4.6	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°	2156.0	63.5
0°-40°	2967.8	87.4
0°-60°	3369.4	99.2
0°-90°	3397.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3560	
5°	3396	314
15°	2808	789
25°	2318	1053
35°	1321	812
45°	368	303
55°	104	99
65°	20	23
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3560.2
1°	3544.6
2°	3518.8
3°	3485.5
4°	3444.9
5°	3396.2
6°	3340.9
7°	3277.7
8°	3210.3
9°	3140.4
10°	3076.3
11°	3014.7
12°	2957.1
13°	2904.3
14°	2855.6
15°	2807.7
16°	2759.0
17°	2711.9
18°	2663.2
19°	2615.3
20°	2569.0
21°	2521.1
22°	2474.9
23°	2426.2
24°	2375.0
25°	2318.2
26°	2255.7
27°	2186.8
28°	2110.4
29°	2025.2
30°	1931.8
32.5°	1658.4
35°	1320.6
37.5°	978.1
40°	692.4
42.5°	495.9
45°	367.7
47.5°	276.8
50°	204.5
52.5°	146.1
55°	104.0
57.5°	71.4
60°	47.0
62.5°	30.8
65°	20.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	13.8
70°	8.9
72.5°	5.7
75°	4.0
77.5°	2.5
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0

(END OF REPORT)