

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: P247327

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90927 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7023.3 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

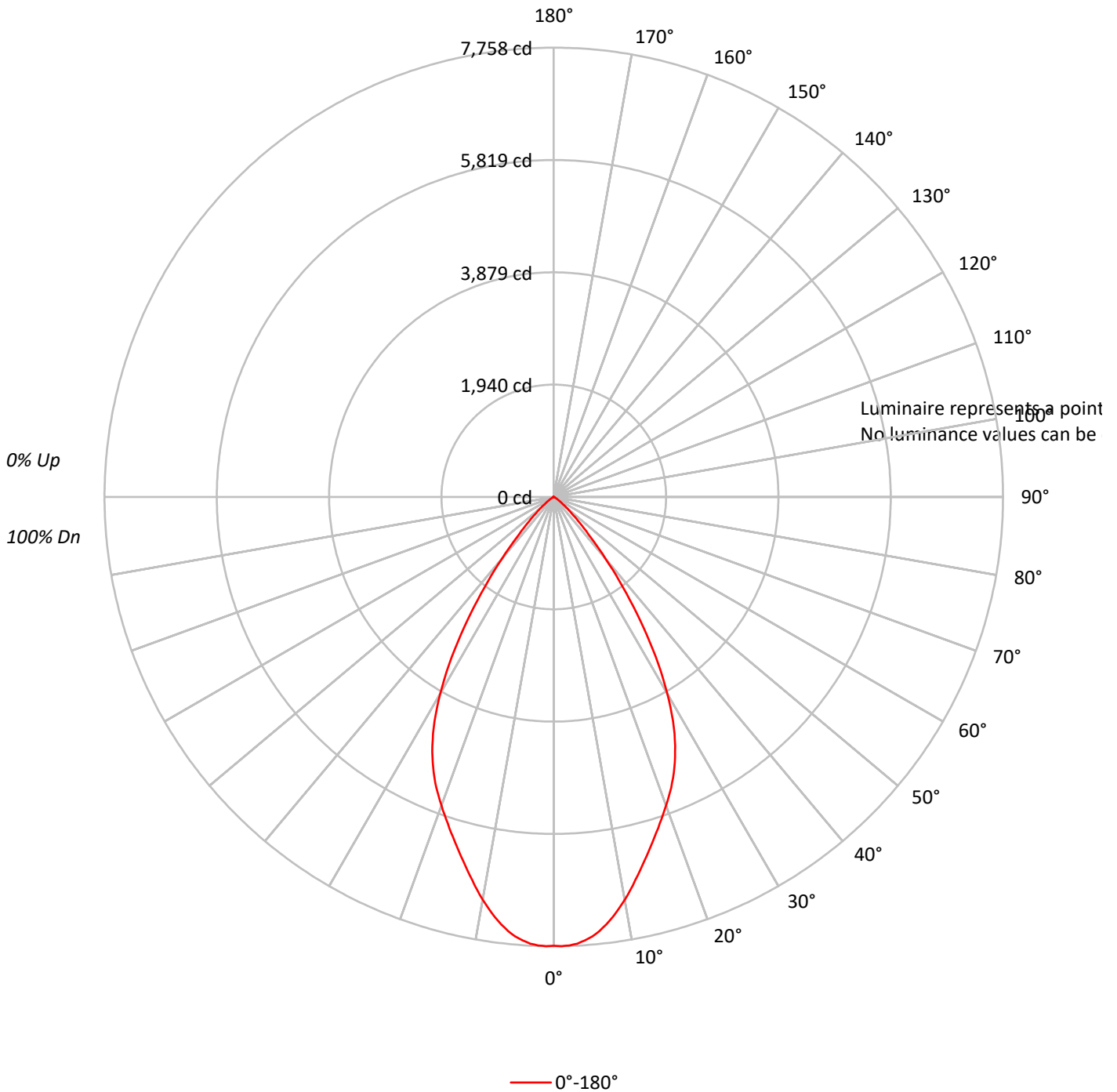
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72		79	74	71		77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66		74	69	66		73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58		66	61	57		65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54		62	57	54		61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51		59	54	51		58	54	50	49

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	709.0	10.1
10°-20°	1777.7	25.3
20°-30°	2244.2	32.0
30°-40°	1614.3	23.0
40°-50°	534.3	7.6
50°-60°	116.3	1.7
60°-70°	23.9	0.3
70°-80°	2.3	0.0
80°-90°	1.2	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°	4730.9	67.4
0°-40°	6345.2	90.3
0°-60°	6995.9	99.6
0°-90°	7023.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7023.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7748	
5°	7619	709
15°	6333	1778
25°	4957	2244
35°	2602	1614
45°	627	534
55°	114	116
65°	22	24
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7747.5
1°	7758.3
2°	7749.2
3°	7723.8
4°	7676.2
5°	7618.6
6°	7539.3
7°	7436.1
8°	7322.3
9°	7197.8
10°	7060.8
11°	6921.0
12°	6768.8
13°	6622.1
14°	6474.5
15°	6332.8
16°	6193.6
17°	6059.9
18°	5927.4
19°	5800.0
20°	5671.8
21°	5540.4
22°	5412.0
23°	5272.5
24°	5122.0
25°	4956.6
26°	4783.2
27°	4589.8
28°	4385.5
29°	4158.3
30°	3921.8
31°	3673.0
32°	3411.1
33°	3136.4
34°	2867.6
35°	2601.6
37.5°	1953.7
40°	1384.4
42.5°	937.9
45°	627.2
47.5°	420.8
50°	281.1
52.5°	169.8
55°	113.8
57.5°	79.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	47.0
62.5°	32.2
65°	21.5
67.5°	19.3
70°	1.8
72.5°	4.4
75°	1.8
77.5°	1.8
80°	0.0
82.5°	4.4
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)