

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: P247287

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247287
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 EC8B90827 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8410.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

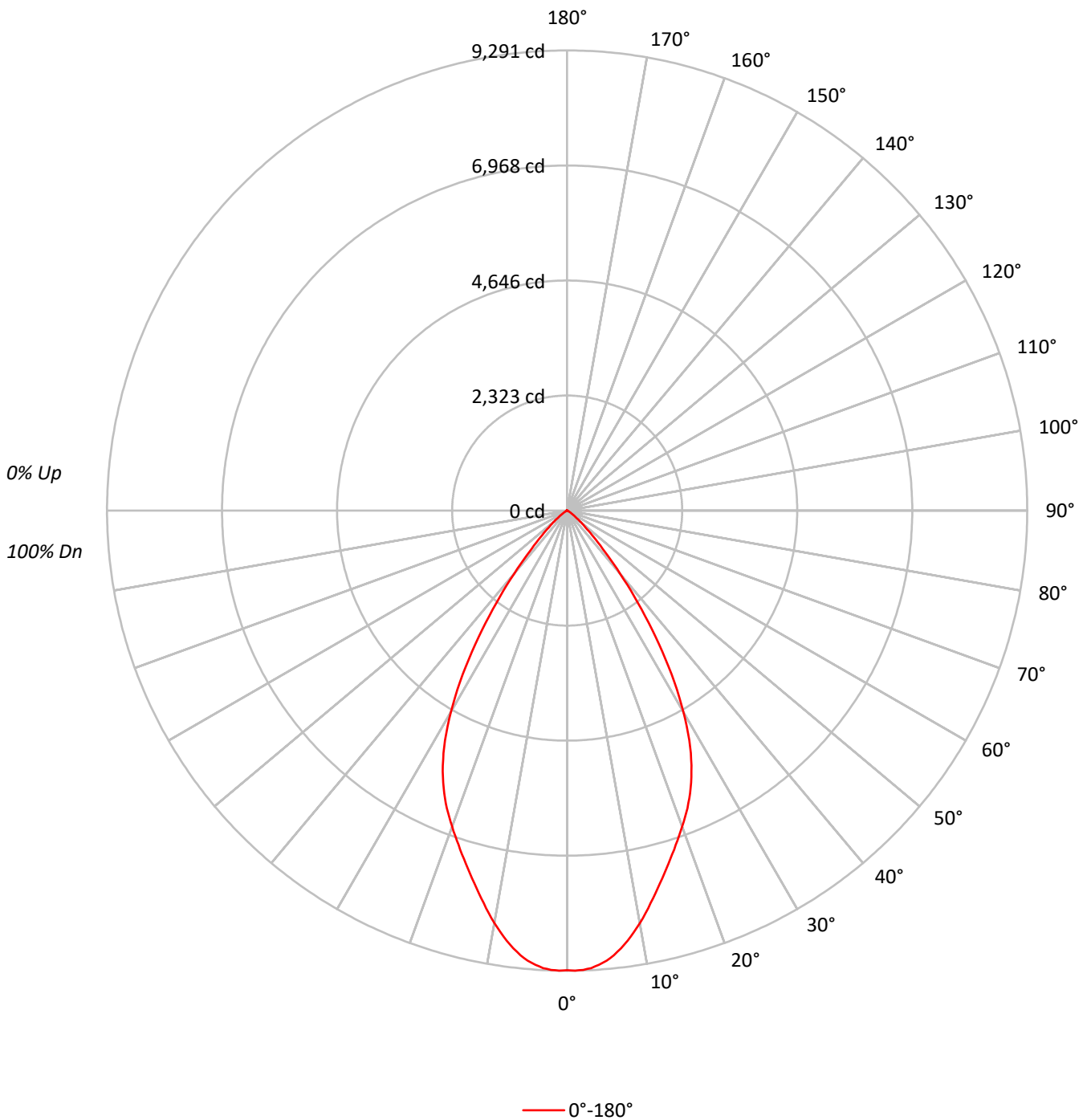
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):

	0°
0°	286105
5°	282419
10°	264771
15°	242116
20°	222892
25°	201967
30°	167230
35°	117280
40°	66741
45°	32755
50°	16152
55°	7328
60°	3472
65°	1882
70°	189
75°	250
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.1	10.1
10°-20°	2129.0	25.3
20°-30°	2687.5	32.0
30°-40°	1933.3	23.0
40°-50°	639.9	7.6
50°-60°	139.3	1.7
60°-70°	28.7	0.3
70°-80°	2.8	0.0
80°-90°	1.4	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°	5665.6	67.4
0°-40°	7598.9	90.3
0°-60°	8378.1	99.6
0°-90°	8410.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8410.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9278	
5°	9124	849
15°	7584	2129
25°	5936	2688
35°	3116	1933
45°	751	640
55°	136	139
65°	26	29
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9278.2
1°	9291.2
2°	9280.3
3°	9249.8
4°	9192.9
5°	9123.8
6°	9028.9
7°	8905.3
8°	8769.0
9°	8619.9
10°	8455.9
11°	8288.4
12°	8106.1
13°	7930.4
14°	7753.7
15°	7584.1
16°	7417.2
17°	7257.2
18°	7098.5
19°	6946.0
20°	6792.3
21°	6635.0
22°	6481.4
23°	6314.2
24°	6134.0
25°	5936.0
26°	5728.1
27°	5496.6
28°	5251.9
29°	4980.0
30°	4696.6
31°	4398.7
32°	4085.1
33°	3756.0
34°	3434.2
35°	3115.5
37.5°	2339.7
40°	1658.0
42.5°	1123.2
45°	751.1
47.5°	503.9
50°	336.7
52.5°	203.3
55°	136.3
57.5°	94.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	56.3
62.5°	38.5
65°	25.8
67.5°	23.1
70°	2.1
72.5°	5.3
75°	2.1
77.5°	2.1
80°	0.0
82.5°	5.3
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)