

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: P250779

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909727 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6549.9 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

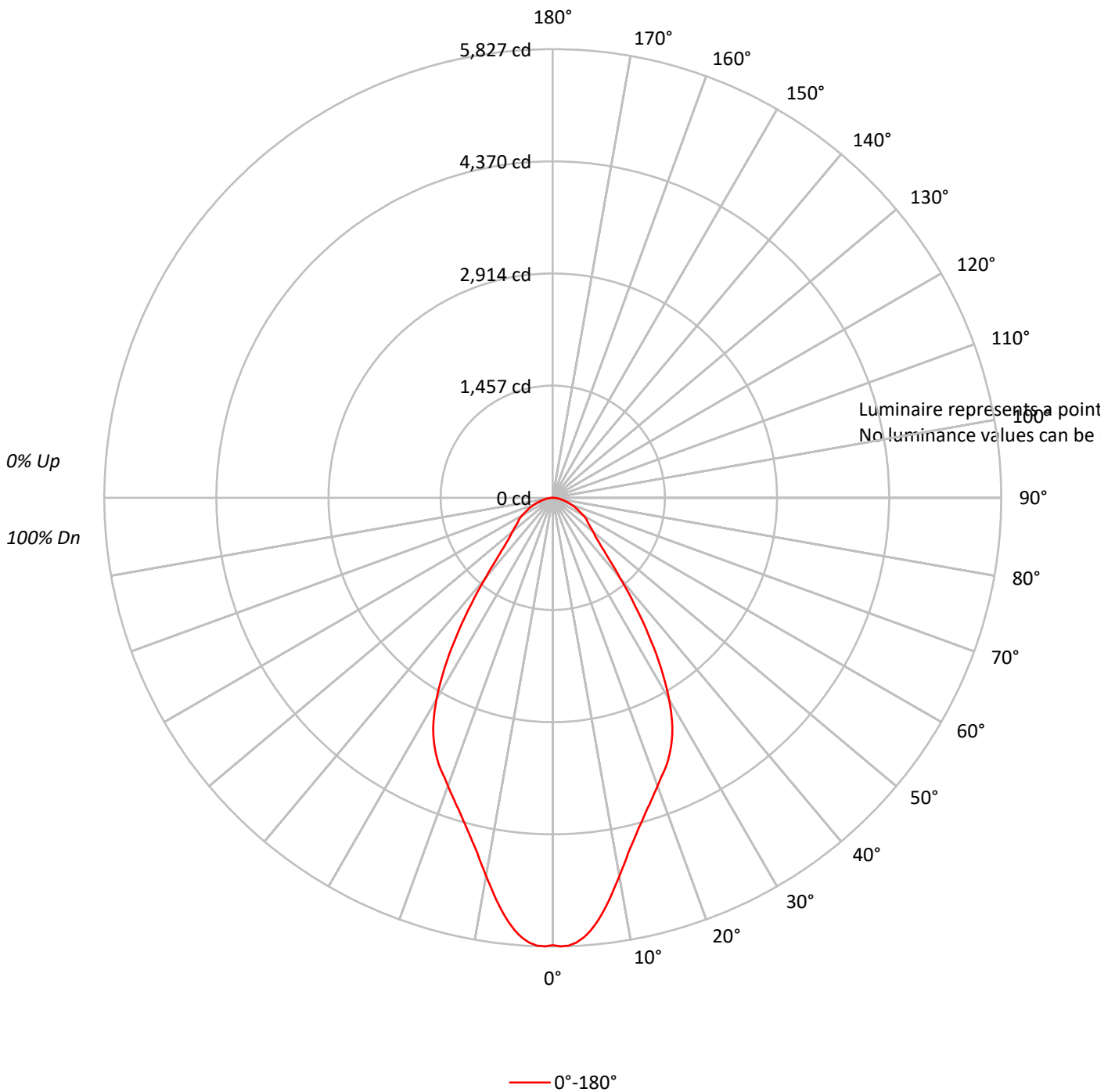
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.4	7.9
10°-20°	1239.3	18.9
20°-30°	1642.4	25.1
30°-40°	1346.7	20.6
40°-50°	717.3	11.0
50°-60°	504.8	7.7
60°-70°	348.1	5.3
70°-80°	181.3	2.8
80°-90°	53.6	0.8
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°	3398.1	51.9
0°-40°	4744.8	72.4
0°-60°	5966.9	91.1
0°-90°	6549.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6549.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5810	
5°	5642	516
15°	4395	1239
25°	3618	1642
35°	2166	1347
45°	885	717
55°	555	505
65°	349	348
75°	172	181
85°	49	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5810.2
1°	5827.2
2°	5819.6
3°	5785.5
4°	5726.8
5°	5641.5
6°	5535.4
7°	5408.4
8°	5272.0
9°	5126.1
10°	4985.8
11°	4851.3
12°	4714.8
13°	4601.1
14°	4493.1
15°	4394.6
16°	4301.7
17°	4216.5
18°	4136.8
19°	4057.3
20°	3981.5
21°	3907.6
22°	3843.1
23°	3776.8
24°	3699.1
25°	3617.6
26°	3524.8
27°	3420.5
28°	3303.0
29°	3172.3
30°	3022.6
31°	2865.3
32°	2700.4
33°	2524.2
34°	2348.0
35°	2166.0
37.5°	1735.8
40°	1360.6
42.5°	1074.5
45°	885.0
47.5°	759.9
50°	682.2
52.5°	614.0
55°	555.3
57.5°	519.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	458.6
62.5°	399.8
65°	348.7
67.5°	303.2
70°	253.9
72.5°	212.2
75°	172.4
77.5°	125.1
80°	102.3
82.5°	73.9
85°	49.3
87.5°	22.7
90°	0.0

(END OF REPORT)