

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: P250694

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809727 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

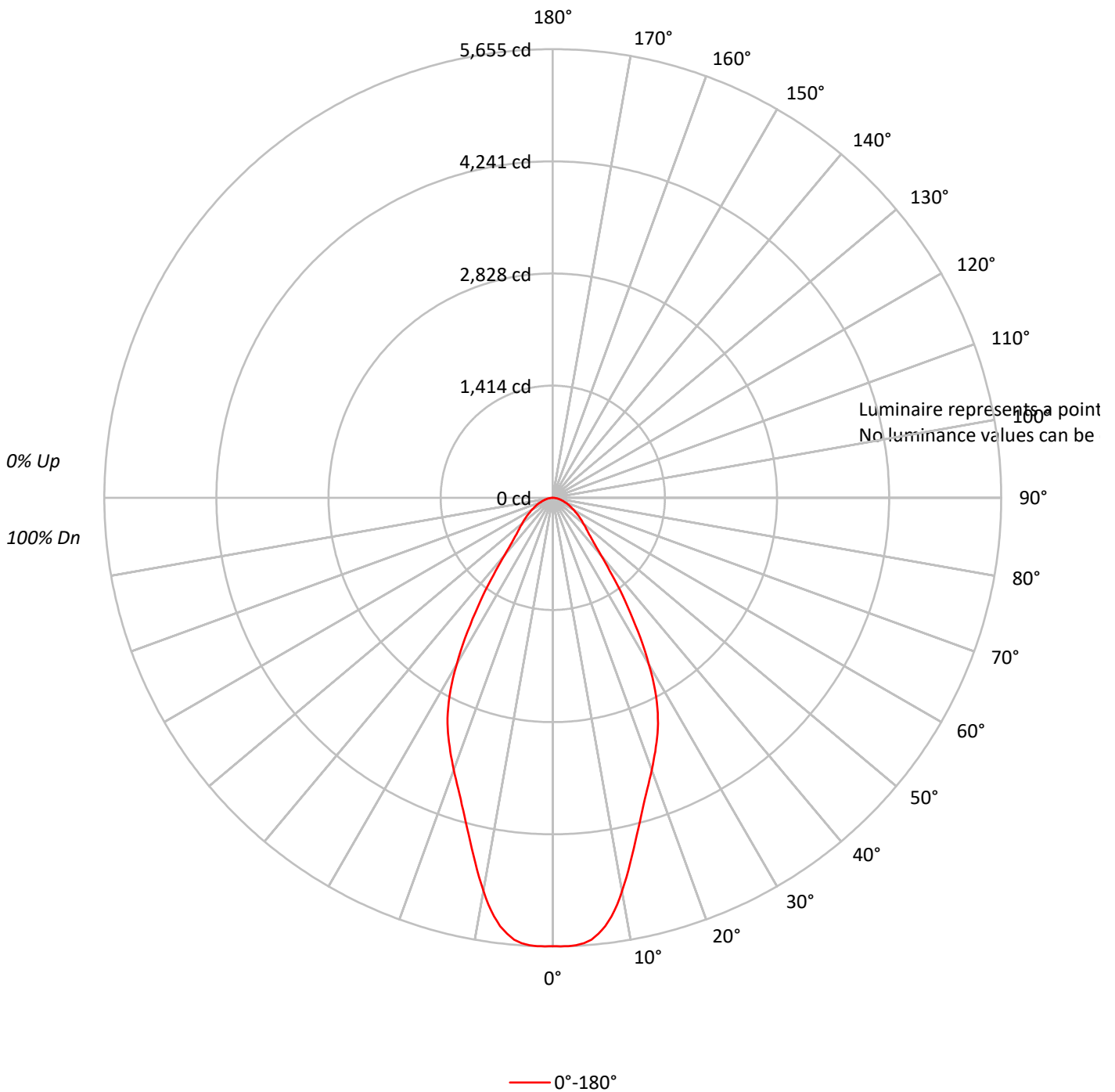
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250694

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBN0MW

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	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P250694

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.9	9.6
10°-20°	1190.4	22.1
20°-30°	1418.8	26.3
30°-40°	1001.5	18.6
40°-50°	517.2	9.6
50°-60°	354.9	6.6
60°-70°	230.7	4.3
70°-80°	120.8	2.2
80°-90°	36.7	0.7
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°	3125.1	58.0
0°-40°	4126.6	76.6
0°-60°	4998.7	92.8
0°-90°	5387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5387.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5652	
5°	5590	516
15°	4234	1190
25°	3140	1419
35°	1592	1002
45°	646	517
55°	394	355
65°	232	231
75°	112	121
85°	31	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5651.7
1°	5655.1
2°	5655.1
3°	5646.5
4°	5627.6
5°	5589.8
6°	5522.8
7°	5440.3
8°	5326.8
9°	5189.3
10°	5034.6
11°	4871.3
12°	4701.1
13°	4537.9
14°	4379.7
15°	4233.6
16°	4097.8
17°	3972.4
18°	3858.9
19°	3752.3
20°	3649.2
21°	3547.8
22°	3448.1
23°	3348.4
24°	3247.0
25°	3140.4
26°	3020.0
27°	2889.4
28°	2746.8
29°	2595.5
30°	2423.6
31°	2256.9
32°	2086.7
33°	1911.4
34°	1749.8
35°	1591.7
37.5°	1225.6
40°	943.7
42.5°	759.8
45°	646.3
47.5°	565.5
50°	501.9
52.5°	446.9
55°	393.6
57.5°	345.5



TEST NUMBER: P250694

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CANDELA DISTRIBUTION (continued):

	0°
60°	305.9
62.5°	266.4
65°	232.0
67.5°	201.1
70°	161.6
72.5°	139.3
75°	111.8
77.5°	91.1
80°	70.5
82.5°	51.6
85°	31.0
87.5°	17.2
90°	0.0

(END OF REPORT)