

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: P250687

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250687
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 EC8B80950 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7134.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

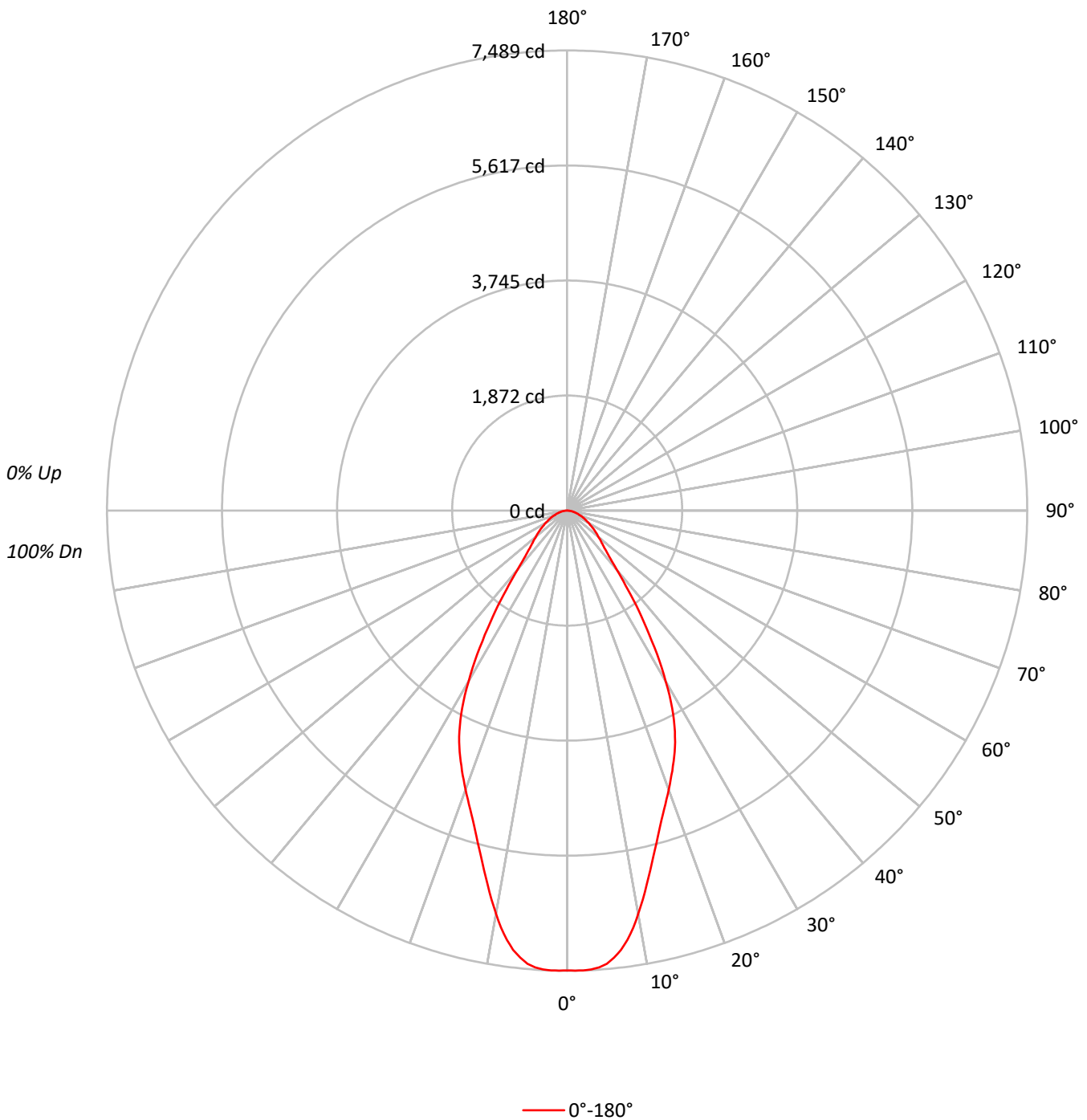
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):

	0°
0°	230794
5°	229138
10°	208767
15°	178986
20°	158583
25°	141499
30°	114283
35°	79350
40°	50305
45°	37325
50°	31888
55°	28026
60°	24990
65°	22422
70°	19294
75°	17633
80°	16568
85°	14506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.2	9.6
10°-20°	1576.5	22.1
20°-30°	1878.9	26.3
30°-40°	1326.3	18.6
40°-50°	684.9	9.6
50°-60°	470.0	6.6
60°-70°	305.6	4.3
70°-80°	160.0	2.2
80°-90°	48.6	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°	4138.6	58.0
0°-40°	5464.9	76.6
0°-60°	6619.9	92.8
0°-90°	7134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7134.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7484	
5°	7402	683
15°	5607	1576
25°	4159	1879
35°	2108	1326
45°	856	685
55°	521	470
65°	307	306
75°	148	160
85°	41	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7484.5
1°	7489.1
2°	7489.1
3°	7477.7
4°	7452.7
5°	7402.5
6°	7313.8
7°	7204.5
8°	7054.2
9°	6872.2
10°	6667.3
11°	6451.1
12°	6225.7
13°	6009.5
14°	5800.0
15°	5606.6
16°	5426.7
17°	5260.6
18°	5110.3
19°	4969.2
20°	4832.6
21°	4698.3
22°	4566.3
23°	4434.3
24°	4300.0
25°	4158.8
26°	3999.4
27°	3826.4
28°	3637.5
29°	3437.2
30°	3209.6
31°	2988.8
32°	2763.4
33°	2531.2
34°	2317.2
35°	2107.9
37.5°	1623.0
40°	1249.7
42.5°	1006.2
45°	855.9
47.5°	748.9
50°	664.7
52.5°	591.9
55°	521.3
57.5°	457.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	405.2
62.5°	352.9
65°	307.3
67.5°	266.3
70°	214.0
72.5°	184.4
75°	148.0
77.5°	120.6
80°	93.3
82.5°	68.3
85°	41.0
87.5°	22.7
90°	0.0

(END OF REPORT)