

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: P250736

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250736
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: LSR8B80D010 EC8B80850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8460.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

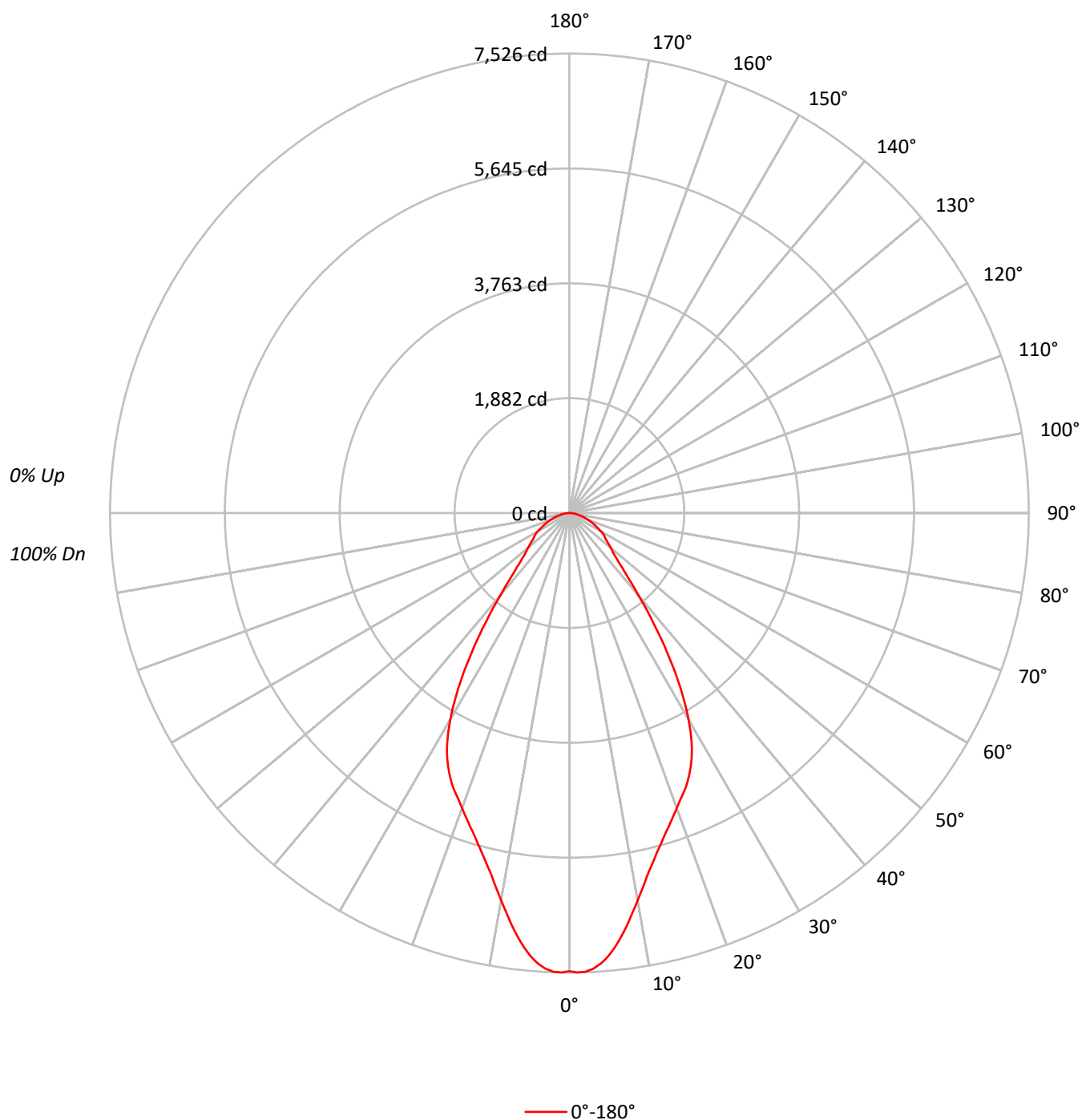
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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):

	0°
0°	231411
5°	225550
10°	201640
15°	181204
20°	168753
25°	158978
30°	139009
35°	105313
40°	70742
45°	49850
50°	42274
55°	38558
60°	36529
65°	32863
70°	29572
75°	26533
80°	23476
85°	22538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.9	7.9
10°-20°	1600.7	18.9
20°-30°	2121.3	25.1
30°-40°	1739.5	20.6
40°-50°	926.5	11.0
50°-60°	652.1	7.7
60°-70°	449.6	5.3
70°-80°	234.2	2.8
80°-90°	69.3	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°	4388.9	51.9
0°-40°	6128.4	72.4
0°-60°	7706.9	91.1
0°-90°	8460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8460.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7504	
5°	7287	667
15°	5676	1601
25°	4672	2121
35°	2798	1739
45°	1143	926
55°	717	652
65°	450	450
75°	223	234
85°	64	69
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7504.5
1°	7526.5
2°	7516.7
3°	7472.6
4°	7396.8
5°	7286.6
6°	7149.5
7°	6985.6
8°	6809.3
9°	6620.8
10°	6439.7
11°	6265.9
12°	6089.7
13°	5942.8
14°	5803.4
15°	5676.1
16°	5556.1
17°	5446.0
18°	5343.2
19°	5240.4
20°	5142.5
21°	5047.0
22°	4963.8
23°	4878.1
24°	4777.8
25°	4672.5
26°	4552.6
27°	4418.0
28°	4266.2
29°	4097.3
30°	3904.0
31°	3700.8
32°	3487.9
33°	3260.3
34°	3032.6
35°	2797.6
37.5°	2242.0
40°	1757.4
42.5°	1387.8
45°	1143.1
47.5°	981.5
50°	881.2
52.5°	793.1
55°	717.2
57.5°	670.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	592.3
62.5°	516.4
65°	450.4
67.5°	391.6
70°	328.0
72.5°	274.1
75°	222.7
77.5°	161.5
80°	132.2
82.5°	95.5
85°	63.7
87.5°	29.3
90°	0.0

(END OF REPORT)