

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: P246707

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50850 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: 5588.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

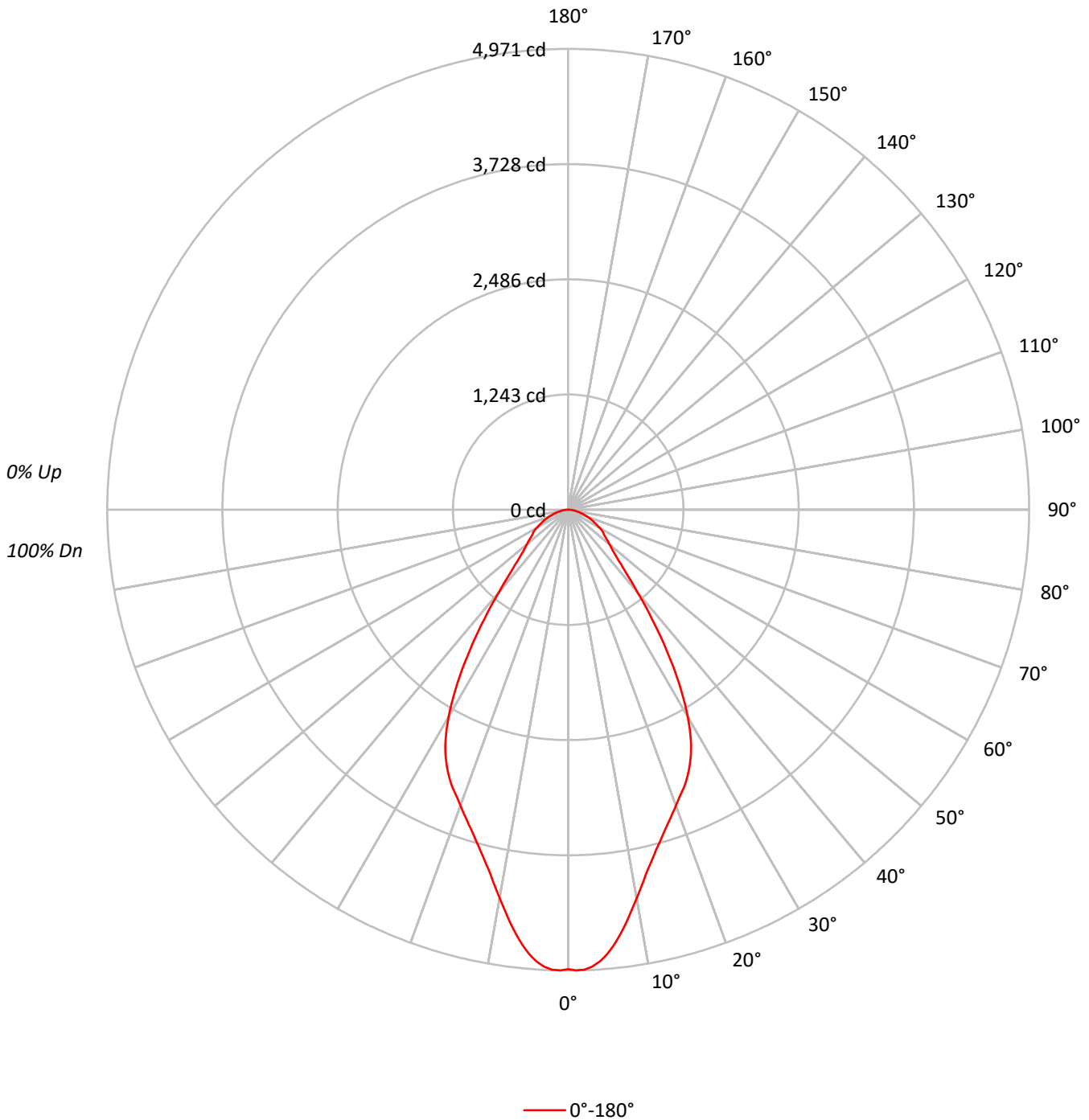
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	152859
5°	148982
10°	133186
15°	119687
20°	111461
25°	105005
30°	91808
35°	69566
40°	46723
45°	32934
50°	27930
55°	25467
60°	24132
65°	21707
70°	19529
75°	17562
80°	15467
85°	14895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.5	7.9
10°-20°	1057.3	18.9
20°-30°	1401.1	25.1
30°-40°	1148.9	20.6
40°-50°	612.0	11.0
50°-60°	430.7	7.7
60°-70°	297.0	5.3
70°-80°	154.7	2.8
80°-90°	45.8	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°	2898.9	51.9
0°-40°	4047.8	72.4
0°-60°	5090.5	91.1
0°-90°	5588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5588.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4957	
5°	4813	441
15°	3749	1057
25°	3086	1401
35°	1848	1149
45°	755	612
55°	474	431
65°	298	297
75°	147	155
85°	42	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4957.1
1°	4971.1
2°	4965.1
3°	4935.7
4°	4885.3
5°	4813.0
6°	4722.5
7°	4613.9
8°	4497.4
9°	4373.4
10°	4253.5
11°	4138.9
12°	4022.4
13°	3925.3
14°	3833.2
15°	3749.1
16°	3669.9
17°	3596.8
18°	3529.1
19°	3461.4
20°	3396.6
21°	3333.4
22°	3278.4
23°	3222.1
24°	3155.9
25°	3086.2
26°	3007.1
27°	2918.0
28°	2817.6
29°	2706.3
30°	2578.4
31°	2444.3
32°	2303.6
33°	2153.5
34°	2002.7
35°	1848.0
37.5°	1480.7
40°	1160.7
42.5°	916.6
45°	755.2
47.5°	648.5
50°	582.2
52.5°	524.0
55°	473.7
57.5°	442.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	391.3
62.5°	341.1
65°	297.5
67.5°	258.7
70°	216.6
72.5°	180.9
75°	147.4
77.5°	106.6
80°	87.1
82.5°	63.0
85°	42.1
87.5°	19.6
90°	0.0

(END OF REPORT)