

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: P243845

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50935 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4954.1 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

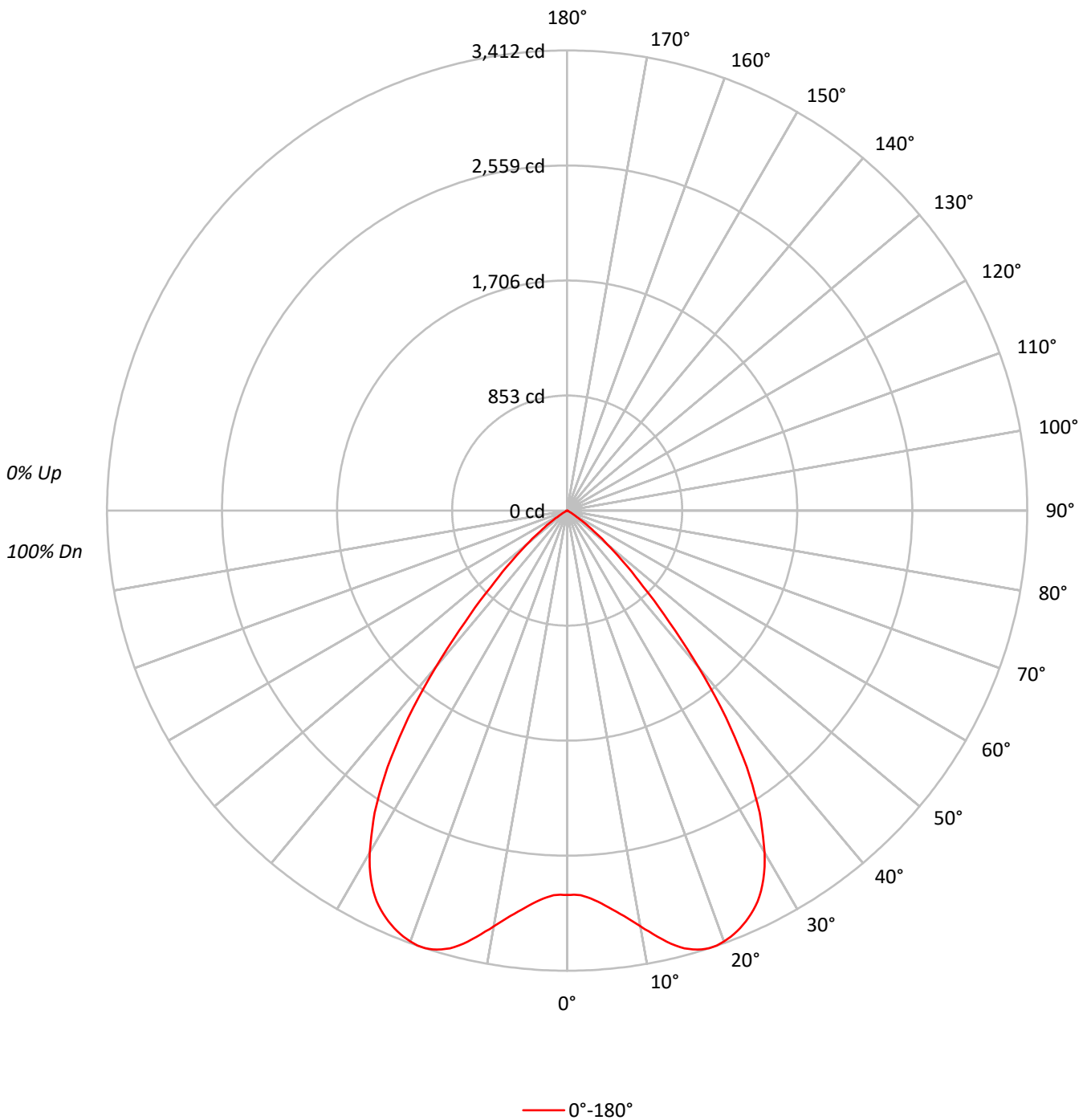
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87896
5°	90497
10°	98035
15°	107265
20°	111595
25°	111184
30°	104292
35°	87451
40°	60888
45°	34874
50°	18729
55°	7726
60°	1924
65°	496
70°	243
75°	167
80°	249
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	5.8
10°-20°	947.0	19.1
20°-30°	1490.0	30.1
30°-40°	1417.4	28.6
40°-50°	653.4	13.2
50°-60°	148.5	3.0
60°-70°	9.8	0.2
70°-80°	2.0	0.0
80°-90°	0.2	0.0
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°	2722.8	55.0
0°-40°	4140.2	83.6
0°-60°	4942.1	99.8
0°-90°	4954.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4954.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2850	
5°	2924	286
15°	3360	947
25°	3268	1490
35°	2323	1417
45°	800	653
55°	144	148
65°	7	10
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2850.4
1°	2849.0
2°	2854.4
3°	2870.7
4°	2895.1
5°	2923.6
6°	2958.8
7°	2996.8
8°	3036.1
9°	3082.1
10°	3130.9
11°	3179.7
12°	3231.2
13°	3280.0
14°	3324.8
15°	3360.0
16°	3385.8
17°	3403.4
18°	3411.5
19°	3410.2
20°	3400.7
21°	3384.4
22°	3364.1
23°	3337.0
24°	3305.8
25°	3267.8
26°	3223.1
27°	3166.2
28°	3098.4
29°	3019.8
30°	2929.0
32.5°	2656.6
35°	2323.1
37.5°	1935.5
40°	1512.6
42.5°	1118.2
45°	799.7
47.5°	566.6
50°	390.4
52.5°	249.4
55°	143.7
57.5°	71.8
60°	31.2
62.5°	12.2
65°	6.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.1
70°	2.7
72.5°	2.7
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)