

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: P244277

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50935 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

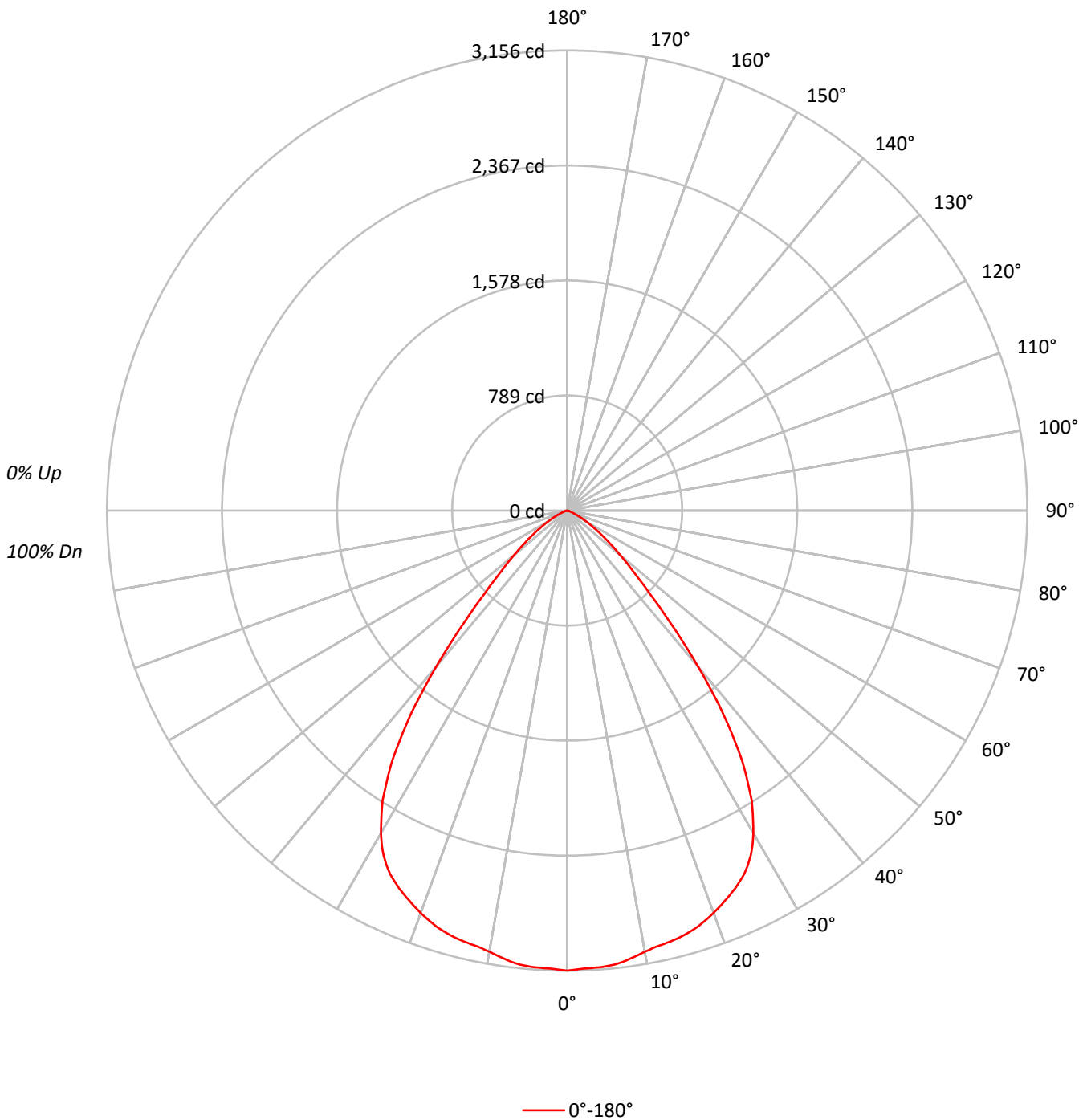
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97307
5°	97088
10°	96209
15°	96570
20°	96365
25°	95424
30°	90954
35°	78748
40°	56174
45°	34521
50°	22773
55°	15064
60°	9646
65°	5261
70°	2579
75°	1299
80°	728
85°	495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	6.3
10°-20°	853.2	18.1
20°-30°	1284.0	27.3
30°-40°	1271.2	27.0
40°-50°	645.9	13.7
50°-60°	260.2	5.5
60°-70°	78.8	1.7
70°-80°	13.6	0.3
80°-90°	1.7	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°	2434.6	51.7
0°-40°	3705.8	78.7
0°-60°	4611.9	98.0
0°-90°	4706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4706.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3156	
5°	3136	297
15°	3025	853
25°	2805	1284
35°	2092	1271
45°	792	646
55°	280	260
65°	72	79
75°	11	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3155.6
1°	3148.8
2°	3143.3
3°	3142.0
4°	3140.6
5°	3136.5
6°	3131.1
7°	3120.2
8°	3103.9
9°	3088.9
10°	3072.6
11°	3059.0
12°	3049.5
13°	3042.7
14°	3034.5
15°	3025.0
16°	3012.7
17°	2997.8
18°	2980.1
19°	2959.7
20°	2936.6
21°	2912.1
22°	2887.6
23°	2861.8
24°	2834.6
25°	2804.6
26°	2772.0
27°	2729.8
28°	2680.9
29°	2622.4
30°	2554.4
32.5°	2355.8
35°	2091.9
37.5°	1762.8
40°	1395.5
42.5°	1054.1
45°	791.6
47.5°	605.3
50°	474.7
52.5°	368.6
55°	280.2
57.5°	208.1
60°	156.4
62.5°	111.5
65°	72.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	44.9
70°	28.6
72.5°	17.7
75°	10.9
77.5°	6.8
80°	4.1
82.5°	2.7
85°	1.4
87.5°	0.0
90°	0.0

(END OF REPORT)