

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: P244379

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50827 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5090.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

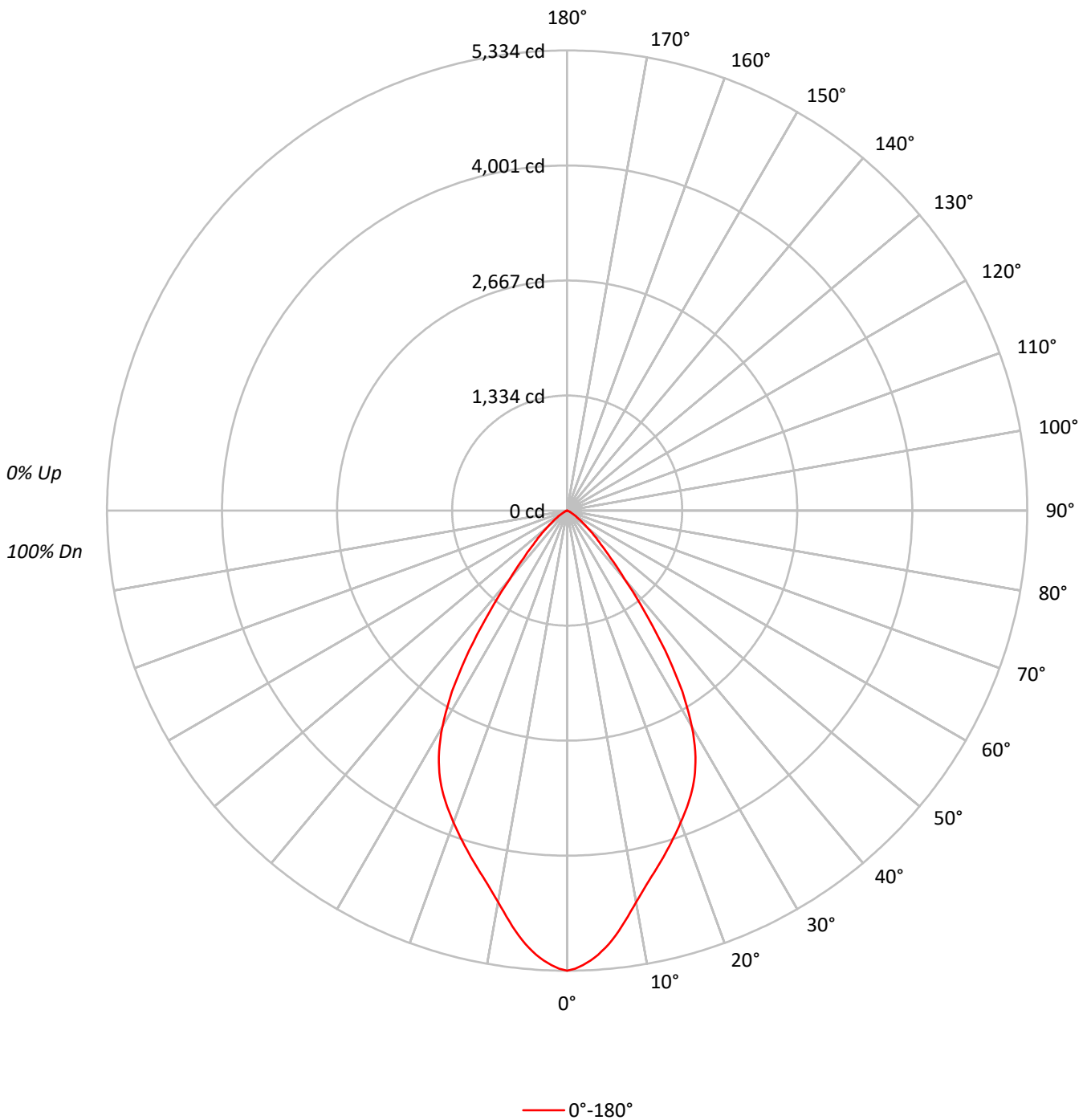
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164469
5°	157494
10°	144314
15°	134286
20°	126300
25°	118169
30°	103053
35°	74479
40°	41755
45°	24024
50°	14699
55°	8371
60°	4348
65°	2218
70°	1208
75°	727
80°	426
85°	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.8	9.2
10°-20°	1182.5	23.2
20°-30°	1577.8	31.0
30°-40°	1216.1	23.9
40°-50°	453.5	8.9
50°-60°	148.3	2.9
60°-70°	34.2	0.7
70°-80°	6.9	0.1
80°-90°	1.0	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°	3230.0	63.5
0°-40°	4446.2	87.4
0°-60°	5047.9	99.2
0°-90°	5090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5090.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5334	
5°	5088	470
15°	4206	1182
25°	3473	1578
35°	1978	1216
45°	551	453
55°	156	148
65°	30	34
75°	6	7
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5333.6
1°	5310.5
2°	5271.6
3°	5221.8
4°	5161.0
5°	5088.0
6°	5005.3
7°	4910.5
8°	4809.5
9°	4704.9
10°	4608.9
11°	4516.5
12°	4430.1
13°	4351.1
14°	4278.1
15°	4206.4
16°	4133.4
17°	4062.9
18°	3989.9
19°	3918.1
20°	3848.8
21°	3777.1
22°	3707.8
23°	3634.8
24°	3558.2
25°	3473.1
26°	3379.4
27°	3276.1
28°	3161.8
29°	3034.1
30°	2894.2
32.5°	2484.4
35°	1978.5
37.5°	1465.4
40°	1037.3
42.5°	743.0
45°	550.9
47.5°	414.7
50°	306.4
52.5°	218.9
55°	155.7
57.5°	107.0
60°	70.5
62.5°	46.2
65°	30.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	20.7
70°	13.4
72.5°	8.5
75°	6.1
77.5°	3.6
80°	2.4
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)