

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: P244403

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244403
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 EC8B50850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5496.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

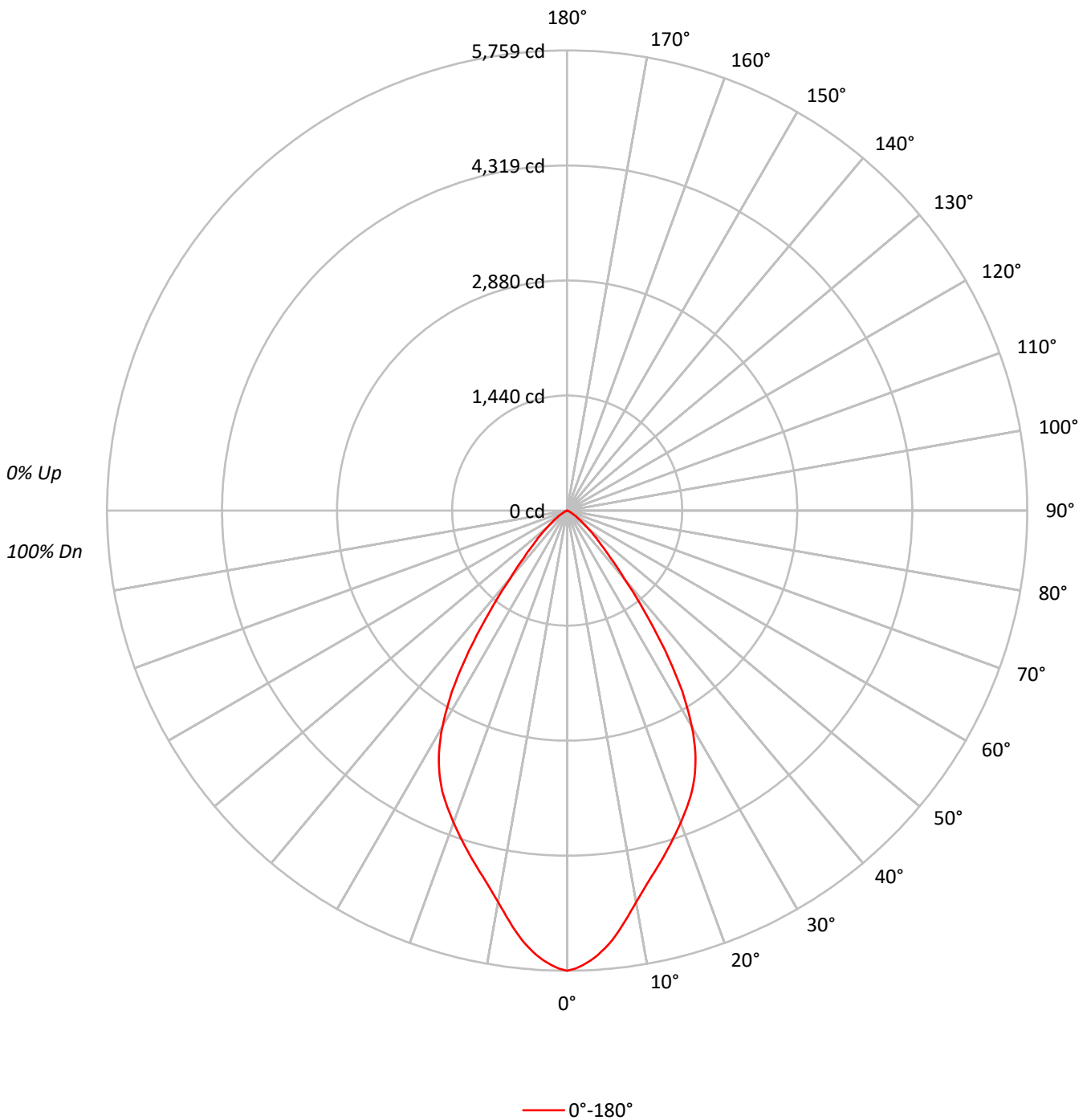
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	177589
5°	170056
10°	155824
15°	144996
20°	136374
25°	127594
30°	111275
35°	80419
40°	45084
45°	25939
50°	15874
55°	9037
60°	4699
65°	2393
70°	1298
75°	786
80°	462
85°	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.2	9.2
10°-20°	1276.8	23.2
20°-30°	1703.6	31.0
30°-40°	1313.1	23.9
40°-50°	489.6	8.9
50°-60°	160.1	2.9
60°-70°	36.9	0.7
70°-80°	7.4	0.1
80°-90°	1.1	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°	3487.7	63.5
0°-40°	4800.8	87.4
0°-60°	5450.6	99.2
0°-90°	5496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5496.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5759	
5°	5494	507
15°	4542	1277
25°	3750	1704
35°	2136	1313
45°	595	490
55°	168	160
65°	33	37
75°	7	7
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5759.1
1°	5734.1
2°	5692.1
3°	5638.3
4°	5572.6
5°	5493.8
6°	5404.6
7°	5302.1
8°	5193.1
9°	5080.2
10°	4976.5
11°	4876.7
12°	4783.5
13°	4698.1
14°	4619.3
15°	4541.9
16°	4463.1
17°	4386.9
18°	4308.1
19°	4230.7
20°	4155.8
21°	4078.4
22°	4003.5
23°	3924.7
24°	3842.0
25°	3750.1
26°	3649.0
27°	3537.4
28°	3414.0
29°	3276.1
30°	3125.1
32.5°	2682.6
35°	2136.3
37.5°	1582.2
40°	1120.0
42.5°	802.3
45°	594.8
47.5°	447.8
50°	330.9
52.5°	236.4
55°	168.1
57.5°	115.5
60°	76.2
62.5°	49.9
65°	32.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	22.3
70°	14.4
72.5°	9.2
75°	6.6
77.5°	3.9
80°	2.6
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0

(END OF REPORT)