

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: P243857

Luminaire Tested: **LSR8B50D010 EC8B50950 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243857
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 EC8B50950 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5357.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

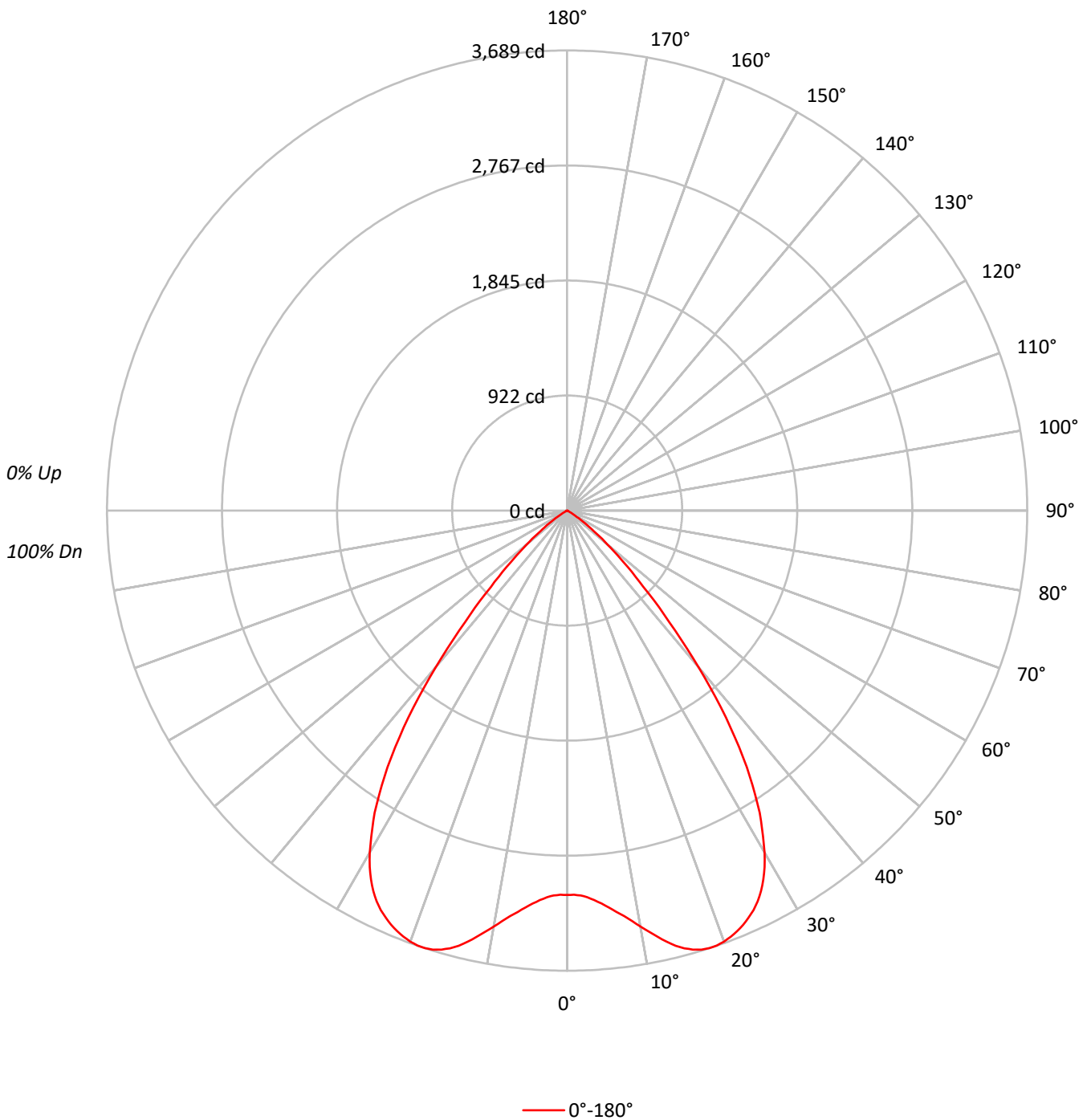
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	95047
5°	97858
10°	106010
15°	115990
20°	120672
25°	120231
30°	112777
35°	94566
40°	65843
45°	37709
50°	20249
55°	8355
60°	2078
65°	533
70°	261
75°	179
80°	266
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	5.8
10°-20°	1024.0	19.1
20°-30°	1611.3	30.1
30°-40°	1532.7	28.6
40°-50°	706.6	13.2
50°-60°	160.6	3.0
60°-70°	10.6	0.2
70°-80°	2.1	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°	2944.3	55.0
0°-40°	4477.0	83.6
0°-60°	5344.1	99.8
0°-90°	5357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5357.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3082	
5°	3161	309
15°	3633	1024
25°	3534	1611
35°	2512	1533
45°	865	707
55°	155	161
65°	7	11
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3082.3
1°	3080.8
2°	3086.6
3°	3104.2
4°	3130.6
5°	3161.4
6°	3199.5
7°	3240.5
8°	3283.0
9°	3332.9
10°	3385.6
11°	3438.4
12°	3494.1
13°	3546.9
14°	3595.2
15°	3633.3
16°	3661.2
17°	3680.2
18°	3689.0
19°	3687.6
20°	3677.3
21°	3659.7
22°	3637.7
23°	3608.4
24°	3574.7
25°	3533.7
26°	3485.3
27°	3423.7
28°	3350.5
29°	3265.5
30°	3167.3
32.5°	2872.7
35°	2512.1
37.5°	2092.9
40°	1635.7
42.5°	1209.2
45°	864.7
47.5°	612.6
50°	422.1
52.5°	269.7
55°	155.4
57.5°	77.7
60°	33.7
62.5°	13.2
65°	7.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.4
70°	2.9
72.5°	2.9
75°	1.5
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)