

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: P246689

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50830 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5305.1 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

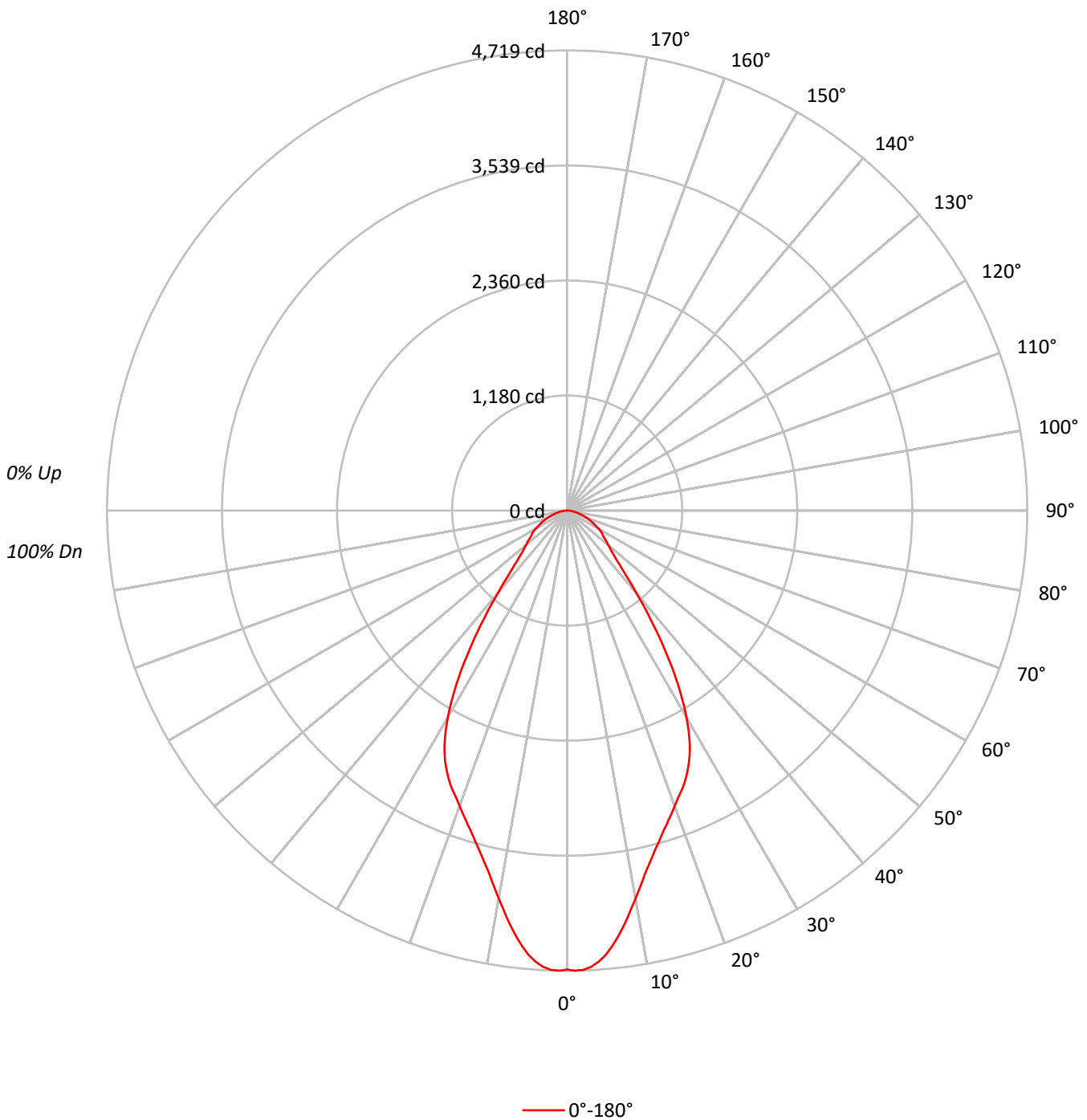
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145116
5°	141435
10°	126441
15°	113624
20°	105816
25°	99687
30°	87158
35°	66043
40°	44356
45°	31263
50°	26515
55°	24177
60°	22911
65°	20613
70°	18546
75°	16680
80°	14686
85°	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.2	7.9
10°-20°	1003.7	18.9
20°-30°	1330.1	25.1
30°-40°	1090.7	20.6
40°-50°	581.0	11.0
50°-60°	408.9	7.7
60°-70°	282.0	5.3
70°-80°	146.8	2.8
80°-90°	43.5	0.8
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°	2752.1	51.9
0°-40°	3842.8	72.4
0°-60°	4832.7	91.1
0°-90°	5305.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5305.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4706	
5°	4569	418
15°	3559	1004
25°	2930	1330
35°	1754	1091
45°	717	581
55°	450	409
65°	282	282
75°	140	147
85°	40	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4706.0
1°	4719.3
2°	4713.6
3°	4685.7
4°	4637.9
5°	4569.2
6°	4483.4
7°	4380.2
8°	4269.6
9°	4151.9
10°	4038.1
11°	3929.3
12°	3818.7
13°	3726.5
14°	3639.0
15°	3559.2
16°	3484.0
17°	3414.7
18°	3350.4
19°	3286.1
20°	3224.6
21°	3164.6
22°	3112.4
23°	3058.9
24°	2996.1
25°	2929.9
26°	2854.8
27°	2770.3
28°	2674.9
29°	2569.2
30°	2447.8
31°	2320.6
32°	2186.9
33°	2044.4
34°	1901.3
35°	1754.4
37.5°	1405.8
40°	1101.9
42.5°	870.2
45°	716.9
47.5°	615.7
50°	552.7
52.5°	497.5
55°	449.7
57.5°	420.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	371.5
62.5°	323.9
65°	282.5
67.5°	245.6
70°	205.7
72.5°	171.7
75°	140.0
77.5°	101.2
80°	82.7
82.5°	59.8
85°	40.0
87.5°	18.6
90°	0.0

(END OF REPORT)