

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: P246725

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246725
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 EC8B50935 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4705.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

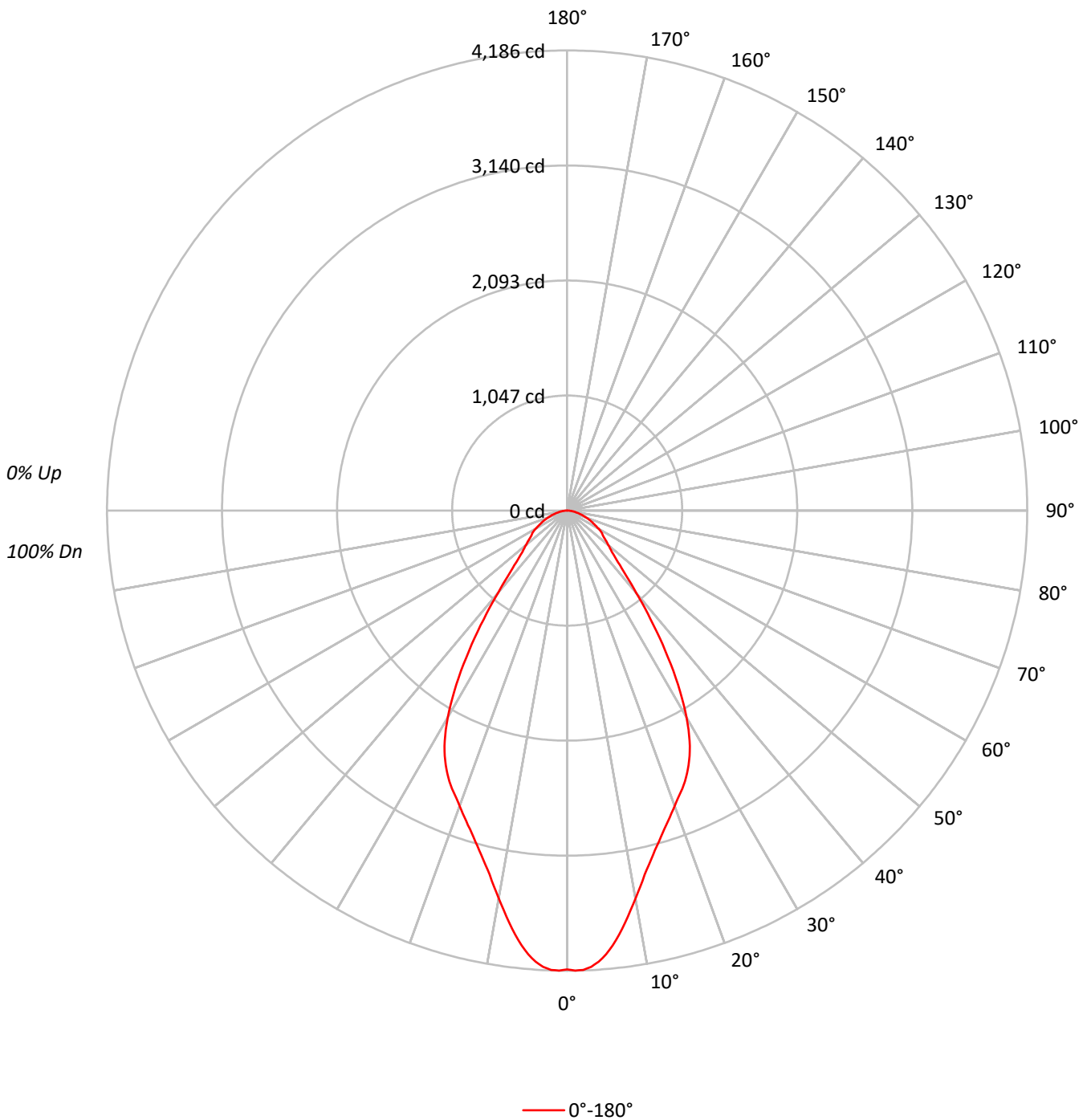
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	128705
5°	125438
10°	112141
15°	100775
20°	93849
25°	88412
30°	77302
35°	58574
40°	39340
45°	27727
50°	23516
55°	21440
60°	20321
65°	18278
70°	16445
75°	14786
80°	13017
85°	12560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.9	7.9
10°-20°	890.2	18.9
20°-30°	1179.7	25.1
30°-40°	967.4	20.6
40°-50°	515.3	11.0
50°-60°	362.7	7.7
60°-70°	250.1	5.3
70°-80°	130.2	2.8
80°-90°	38.6	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°	2440.8	51.9
0°-40°	3408.2	72.4
0°-60°	4286.1	91.1
0°-90°	4705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4174	
5°	4052	371
15°	3157	890
25°	2598	1180
35°	1556	967
45°	636	515
55°	399	363
65°	250	250
75°	124	130
85°	36	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4173.8
1°	4185.6
2°	4180.5
3°	4155.7
4°	4113.4
5°	4052.4
6°	3976.3
7°	3884.8
8°	3786.7
9°	3682.3
10°	3581.4
11°	3484.9
12°	3386.8
13°	3305.0
14°	3227.5
15°	3156.7
16°	3090.0
17°	3028.5
18°	2971.5
19°	2914.5
20°	2859.9
21°	2806.7
22°	2760.4
23°	2712.9
24°	2657.2
25°	2598.5
26°	2531.9
27°	2456.9
28°	2372.4
29°	2278.6
30°	2171.0
31°	2058.1
32°	1939.6
33°	1813.2
34°	1686.3
35°	1556.0
37.5°	1246.8
40°	977.3
42.5°	771.8
45°	635.8
47.5°	546.0
50°	490.2
52.5°	441.2
55°	398.8
57.5°	372.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	329.5
62.5°	287.2
65°	250.5
67.5°	217.9
70°	182.4
72.5°	152.3
75°	124.1
77.5°	89.8
80°	73.3
82.5°	53.1
85°	35.5
87.5°	16.5
90°	0.0

(END OF REPORT)