

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: P246743

Luminaire Tested: **LSR8B50D010 EC8B50927 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246743
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 EC8B50927 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4321.2 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

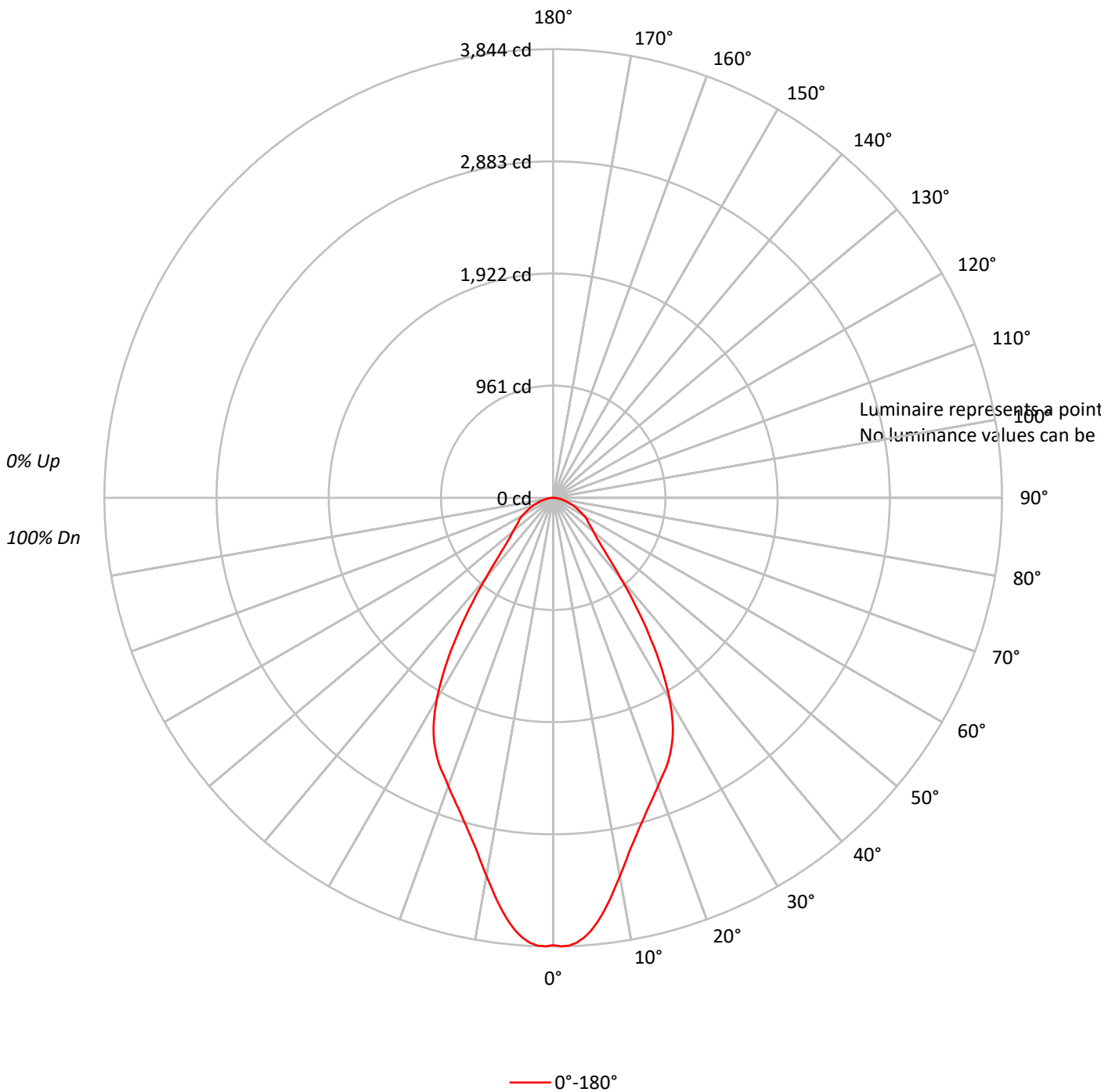
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.6	7.9
10°-20°	817.6	18.9
20°-30°	1083.4	25.1
30°-40°	888.4	20.6
40°-50°	473.3	11.0
50°-60°	333.1	7.7
60°-70°	229.7	5.3
70°-80°	119.6	2.8
80°-90°	35.4	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°	2241.7	51.9
0°-40°	3130.1	72.4
0°-60°	3936.5	91.1
0°-90°	4321.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4321.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3833	
5°	3722	341
15°	2899	818
25°	2386	1083
35°	1429	888
45°	584	473
55°	366	333
65°	230	230
75°	114	120
85°	33	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3833.2
1°	3844.1
2°	3839.4
3°	3816.7
4°	3777.8
5°	3721.8
6°	3651.9
7°	3567.8
8°	3477.8
9°	3381.9
10°	3289.2
11°	3200.5
12°	3110.4
13°	3035.4
14°	2964.2
15°	2899.1
16°	2837.8
17°	2781.3
18°	2729.0
19°	2676.7
20°	2626.5
21°	2577.7
22°	2535.2
23°	2491.5
24°	2440.4
25°	2386.5
26°	2325.4
27°	2256.5
28°	2178.8
29°	2092.7
30°	1993.8
31°	1890.2
32°	1781.3
33°	1665.2
34°	1548.7
35°	1429.0
37.5°	1145.0
40°	897.5
42.5°	708.9
45°	584.0
47.5°	501.5
50°	450.2
52.5°	405.2
55°	366.3
57.5°	342.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	302.6
62.5°	263.8
65°	230.1
67.5°	200.1
70°	167.5
72.5°	139.8
75°	114.0
77.5°	82.5
80°	67.4
82.5°	48.7
85°	32.6
87.5°	15.1
90°	0.0

(END OF REPORT)