

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 EC8B509727 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 EC8B509727 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: 3841.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

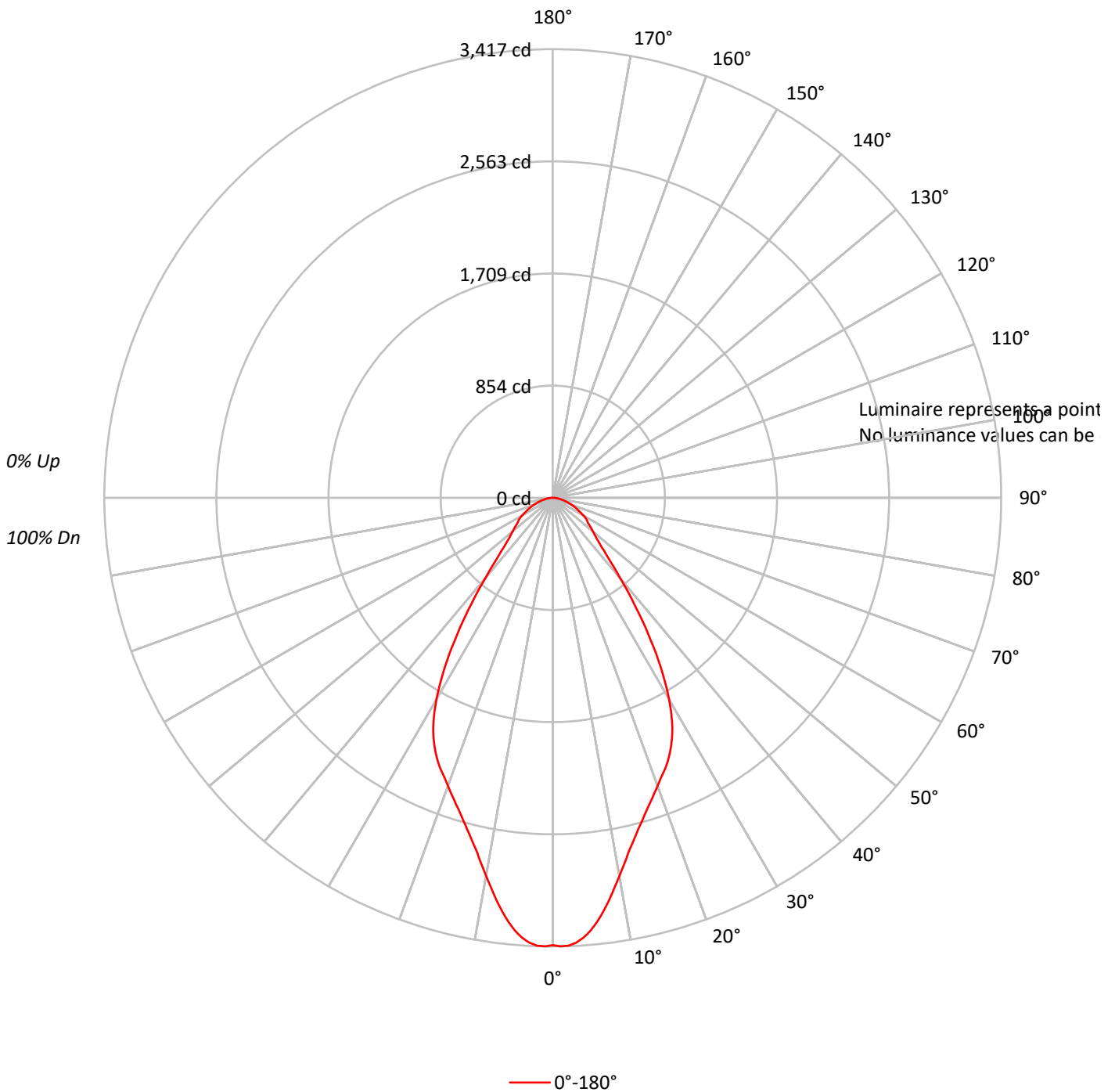
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	302.8	7.9
10°-20°	726.7	18.9
20°-30°	963.1	25.1
30°-40°	789.7	20.6
40°-50°	420.7	11.0
50°-60°	296.1	7.7
60°-70°	204.2	5.3
70°-80°	106.3	2.8
80°-90°	31.5	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°	1992.6	51.9
0°-40°	2782.3	72.4
0°-60°	3499.1	91.1
0°-90°	3841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3407	
5°	3308	303
15°	2577	727
25°	2121	963
35°	1270	790
45°	519	421
55°	326	296
65°	204	204
75°	101	106
85°	29	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3407.3
1°	3417.0
2°	3412.8
3°	3392.6
4°	3358.0
5°	3308.3
6°	3246.1
7°	3171.4
8°	3091.4
9°	3006.1
10°	2923.7
11°	2844.9
12°	2764.8
13°	2698.1
14°	2634.8
15°	2577.0
16°	2522.5
17°	2472.3
18°	2425.8
19°	2379.3
20°	2334.7
21°	2291.3
22°	2253.5
23°	2214.7
24°	2169.2
25°	2121.3
26°	2067.0
27°	2005.8
28°	1936.7
29°	1860.2
30°	1772.3
31°	1680.2
32°	1583.4
33°	1480.2
34°	1376.6
35°	1270.2
37.5°	1017.8
40°	797.8
42.5°	630.1
45°	519.1
47.5°	445.8
50°	400.2
52.5°	360.2
55°	325.6
57.5°	304.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	269.0
62.5°	234.5
65°	204.5
67.5°	177.9
70°	148.9
72.5°	124.3
75°	101.3
77.5°	73.3
80°	59.9
82.5°	43.3
85°	29.0
87.5°	13.4
90°	0.0

(END OF REPORT)