

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: P246683

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246683  
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 EC8B50827 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5176.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

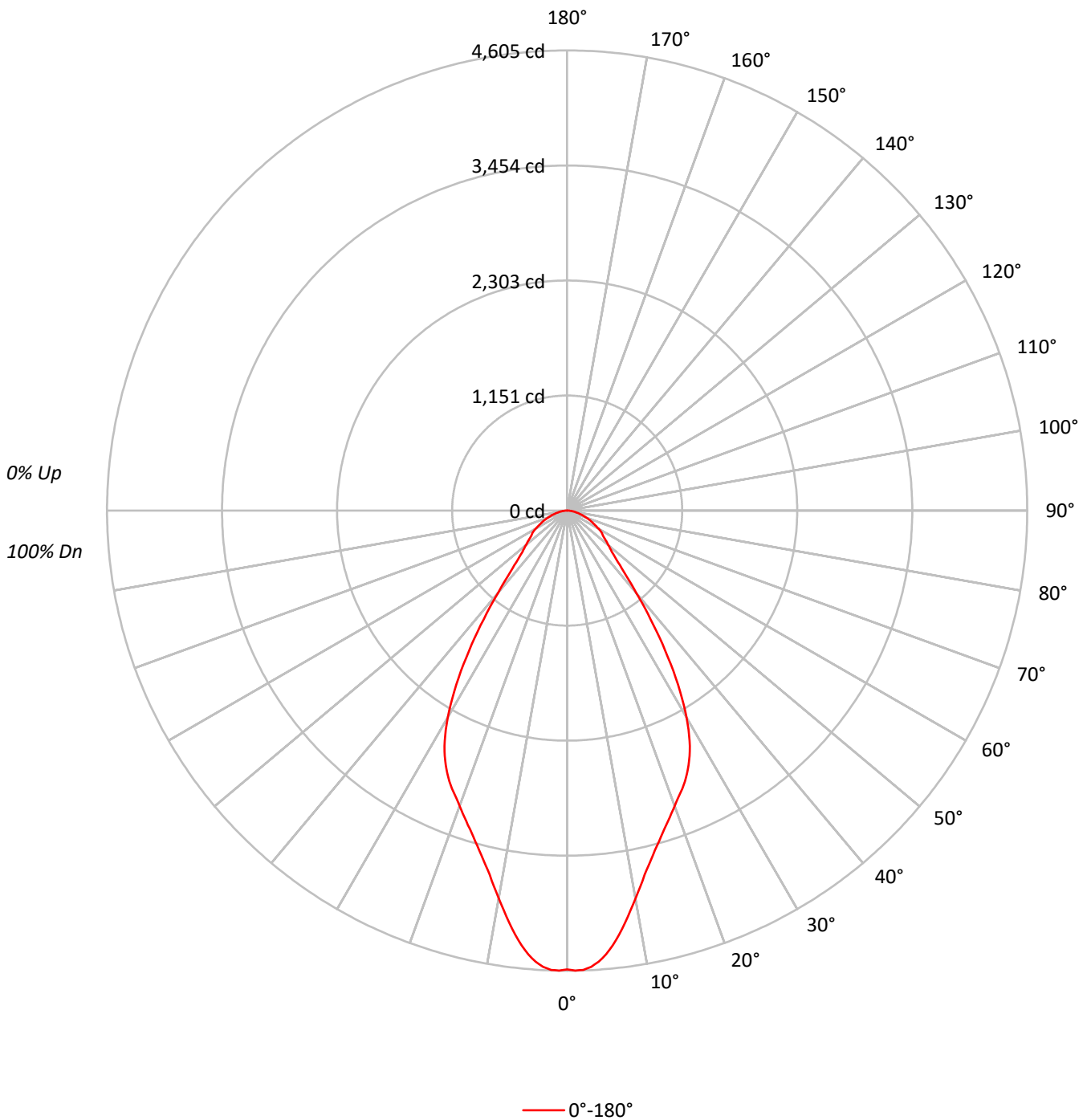
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	141588
5°	137996
10°	123366
15°	110863
20°	103240
25°	97261
30°	85040
35°	64436
40°	43277
45°	30505
50°	25867
55°	23591
60°	22350
65°	20109
70°	18095
75°	16275
80°	14331
85°	13798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.0	7.9
10°-20°	979.3	18.9
20°-30°	1297.8	25.1
30°-40°	1064.2	20.6
40°-50°	566.9	11.0
50°-60°	399.0	7.7
60°-70°	275.2	5.3
70°-80°	143.3	2.8
80°-90°	42.4	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°	2685.1	51.9
0°-40°	3749.3	72.4
0°-60°	4715.2	91.1
0°-90°	5176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5176.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4592	
5°	4458	408
15°	3473	979
25°	2859	1298
35°	1712	1064
45°	700	567
55°	439	399
65°	276	275
75°	137	143
85°	39	42
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4591.6
1°	4604.6
2°	4599.0
3°	4571.8
4°	4525.2
5°	4458.1
6°	4374.4
7°	4273.7
8°	4165.8
9°	4050.9
10°	3939.9
11°	3833.7
12°	3725.8
13°	3635.9
14°	3550.5
15°	3472.7
16°	3399.3
17°	3331.6
18°	3268.9
19°	3206.2
20°	3146.1
21°	3087.6
22°	3036.7
23°	2984.5
24°	2923.2
25°	2858.6
26°	2785.4
27°	2702.9
28°	2609.8
29°	2506.7
30°	2388.3
31°	2264.1
32°	2133.8
33°	1994.7
34°	1855.1
35°	1711.7
37.5°	1371.6
40°	1075.1
42.5°	849.0
45°	699.5
47.5°	600.7
50°	539.2
52.5°	485.4
55°	438.8
57.5°	410.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	362.4
62.5°	316.0
65°	275.6
67.5°	239.7
70°	200.7
72.5°	167.5
75°	136.6
77.5°	98.8
80°	80.7
82.5°	58.4
85°	39.0
87.5°	18.1
90°	0.0

(END OF REPORT)