

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: P244667

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50827 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5024.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

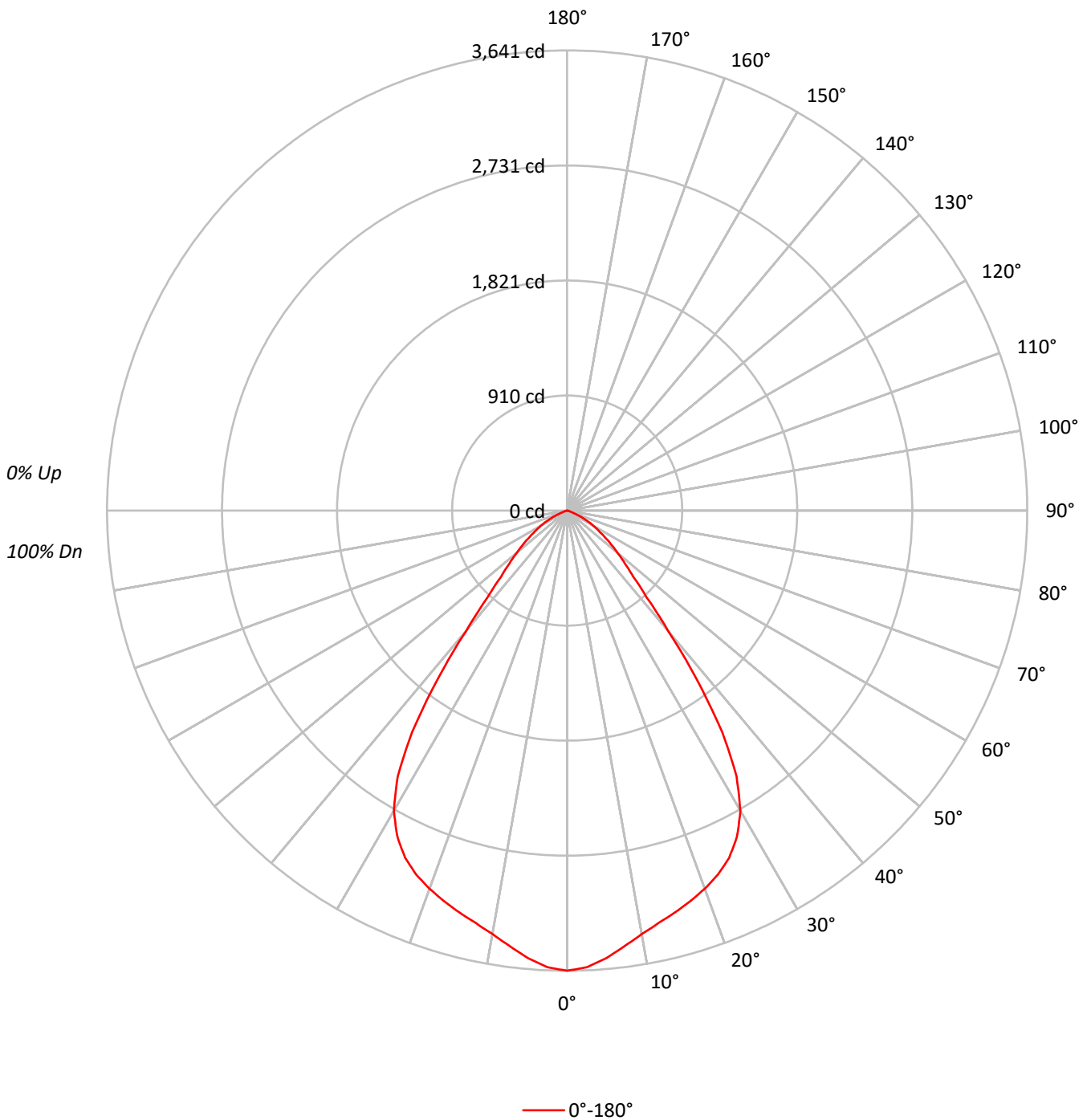
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99		99	98	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	70	65	74	69	64		73	68	64		71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59		67	62	58		66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		61	57	53	51
8	72	61	54	50	71	61	54	50	60	54	49		58	53	49		57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42		51	46	42		51	46	42	41

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	112272
5°	110014
10°	106530
15°	105094
20°	104468
25°	103147
30°	97602
35°	80502
40°	50265
45°	32323
50°	25066
55°	19295
60°	14623
65°	9500
70°	4066
75°	1990
80°	888
85°	601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	6.7
10°-20°	930.1	18.5
20°-30°	1385.3	27.6
30°-40°	1286.5	25.6
40°-50°	607.6	12.1
50°-60°	326.5	6.5
60°-70°	131.1	2.6
70°-80°	20.6	0.4
80°-90°	2.0	0.0
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°	2649.6	52.7
0°-40°	3936.1	78.3
0°-60°	4870.2	96.9
0°-90°	5024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3641	
5°	3554	334
15°	3292	930
25°	3032	1385
35°	2138	1287
45°	741	608
55°	359	326
65°	130	131
75°	17	21
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3640.9
2.5°	3615.9
5°	3554.1
7.5°	3475.7
10°	3402.2
12.5°	3342.1
15°	3292.0
17.5°	3240.3
20°	3183.5
22.5°	3118.4
25°	3031.6
27.5°	2909.7
30°	2741.1
32.5°	2494.1
35°	2138.5
37.5°	1684.4
40°	1248.7
42.5°	929.8
45°	741.2
47.5°	619.3
50°	522.5
52.5°	435.7
55°	358.9
57.5°	292.1
60°	237.1
62.5°	185.3
65°	130.2
67.5°	76.8
70°	45.1
72.5°	26.7
75°	16.7
77.5°	10.0
80°	5.0
82.5°	3.3
85°	1.7
87.5°	0.0
90°	0.0

(END OF REPORT)