

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: P244673

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244673  
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 EC8B50830 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5150.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

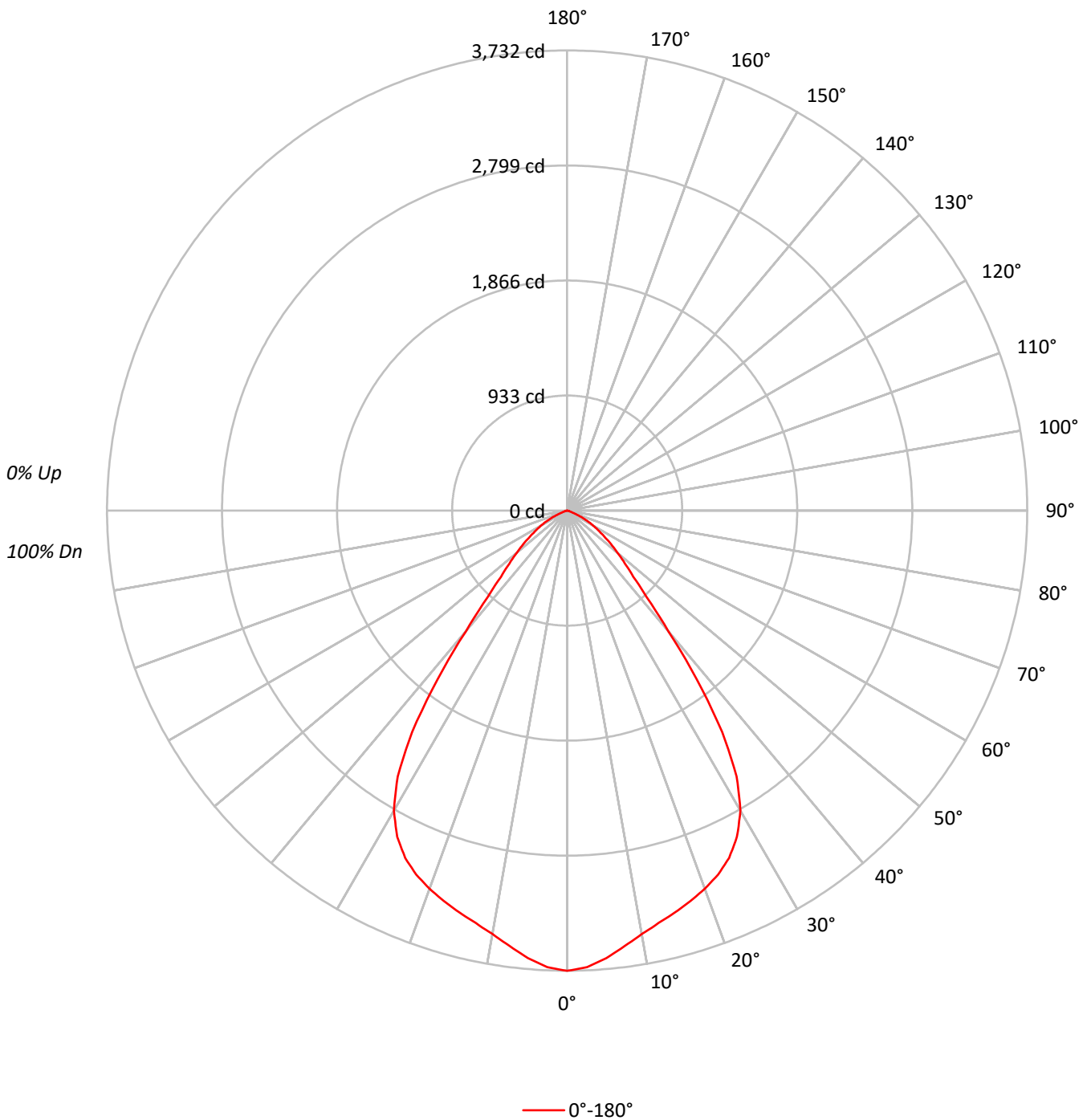
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62					62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44					44			
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41					41			

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

	0°
0°	115087
5°	112775
10°	109201
15°	107731
20°	107090
25°	105733
30°	100051
35°	82520
40°	51525
45°	33134
50°	25694
55°	19779
60°	14986
65°	9741
70°	4165
75°	2037
80°	906
85°	601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	6.7
10°-20°	953.4	18.5
20°-30°	1420.0	27.6
30°-40°	1318.8	25.6
40°-50°	622.9	12.1
50°-60°	334.7	6.5
60°-70°	134.4	2.6
70°-80°	21.1	0.4
80°-90°	2.1	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°	2716.1	52.7
0°-40°	4034.9	78.3
0°-60°	4992.4	96.9
0°-90°	5150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5150.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3732	
5°	3643	343
15°	3375	953
25°	3108	1420
35°	2192	1319
45°	760	623
55°	368	335
65°	134	134
75°	17	21
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3732.2
2.5°	3706.6
5°	3643.3
7.5°	3562.8
10°	3487.5
12.5°	3425.9
15°	3374.6
17.5°	3321.5
20°	3263.4
22.5°	3196.6
25°	3107.6
27.5°	2982.7
30°	2809.9
32.5°	2556.6
35°	2192.1
37.5°	1726.7
40°	1280.0
42.5°	953.2
45°	759.8
47.5°	634.9
50°	535.6
52.5°	446.6
55°	367.9
57.5°	299.5
60°	243.0
62.5°	189.9
65°	133.5
67.5°	78.7
70°	46.2
72.5°	27.4
75°	17.1
77.5°	10.3
80°	5.1
82.5°	3.4
85°	1.7
87.5°	0.0
90°	0.0

(END OF REPORT)