

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: P246749

Luminaire Tested: **LSR8B50D010 EC8B509730 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246749  
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 EC8B509730 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4064.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 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

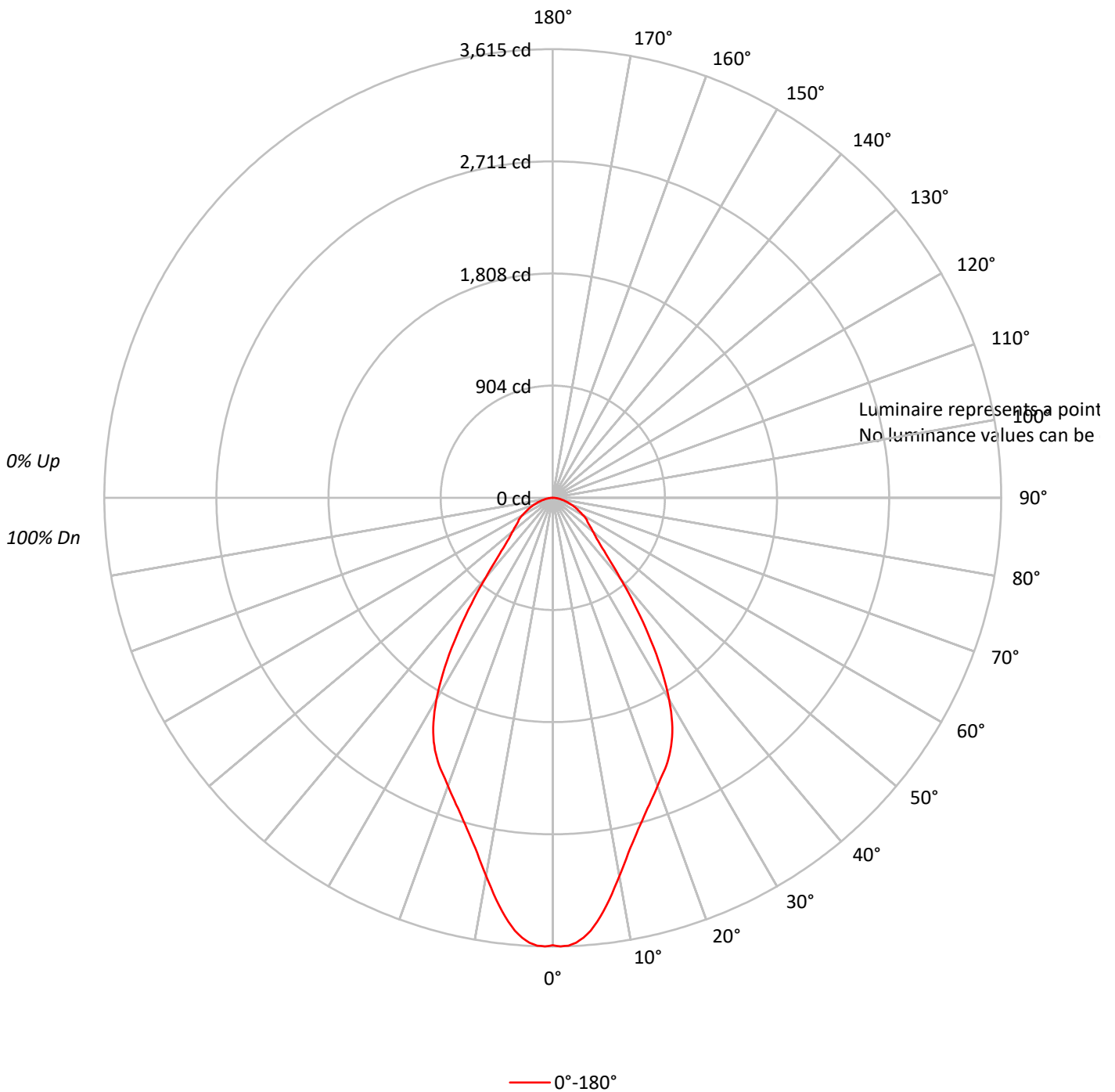
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	320.4	7.9
10°-20°	768.9	18.9
20°-30°	1019.0	25.1
30°-40°	835.6	20.6
40°-50°	445.1	11.0
50°-60°	313.3	7.7
60°-70°	216.0	5.3
70°-80°	112.5	2.8
80°-90°	33.3	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°	2108.3	51.9
0°-40°	2943.8	72.4
0°-60°	3702.2	91.1
0°-90°	4064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3605	
5°	3500	320
15°	2727	769
25°	2244	1019
35°	1344	836
45°	549	445
55°	344	313
65°	216	216
75°	107	112
85°	31	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3605.1
1°	3615.3
2°	3611.0
3°	3589.6
4°	3553.0
5°	3500.3
6°	3434.6
7°	3355.6
8°	3270.8
9°	3180.6
10°	3093.5
11°	3010.1
12°	2925.4
13°	2854.7
14°	2787.8
15°	2726.6
16°	2669.0
17°	2615.9
18°	2566.6
19°	2517.4
20°	2470.2
21°	2424.3
22°	2384.3
23°	2343.3
24°	2295.2
25°	2244.5
26°	2187.0
27°	2122.2
28°	2049.2
29°	1968.2
30°	1875.2
31°	1777.7
32°	1675.4
33°	1566.2
34°	1456.5
35°	1344.0
37.5°	1076.9
40°	844.1
42.5°	666.6
45°	549.2
47.5°	471.7
50°	423.4
52.5°	381.1
55°	344.5
57.5°	322.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	284.6
62.5°	248.1
65°	216.4
67.5°	188.2
70°	157.5
72.5°	131.5
75°	107.2
77.5°	77.6
80°	63.3
82.5°	45.8
85°	30.6
87.5°	14.2
90°	0.0

(END OF REPORT)