

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: P244313

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4795.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

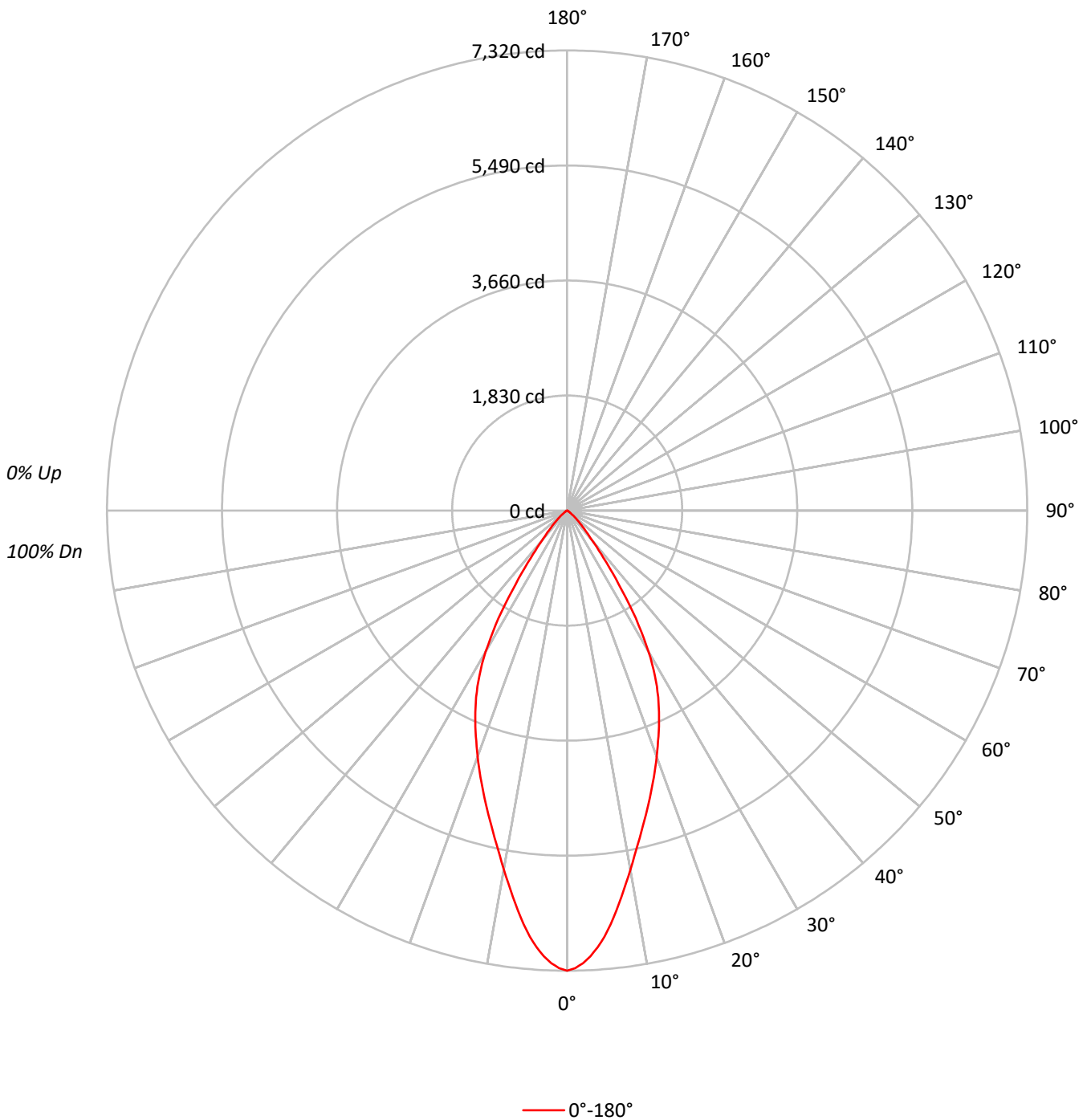
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	225709
5°	210531
10°	181478
15°	157057
20°	136623
25°	117414
30°	92257
35°	53827
40°	24837
45°	12852
50°	6448
55°	3134
60°	1597
65°	949
70°	442
75°	381
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.5	12.8
10°-20°	1375.6	28.7
20°-30°	1563.9	32.6
30°-40°	918.5	19.2
40°-50°	246.5	5.1
50°-60°	58.5	1.2
60°-70°	13.3	0.3
70°-80°	3.0	0.1
80°-90°	0.2	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°	3555.0	74.1
0°-40°	4473.5	93.3
0°-60°	4778.4	99.7
0°-90°	4795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4795.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7320	
5°	6801	616
15°	4920	1376
25°	3451	1564
35°	1430	918
45°	295	246
55°	58	58
65°	13	13
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7319.6
1°	7279.1
2°	7204.6
3°	7099.4
4°	6963.3
5°	6801.4
6°	6618.4
7°	6411.1
8°	6203.9
9°	5995.0
10°	5795.8
11°	5601.4
12°	5418.5
13°	5248.4
14°	5078.4
15°	4919.7
16°	4764.2
17°	4610.4
18°	4461.4
19°	4310.8
20°	4163.4
21°	4016.1
22°	3875.2
23°	3735.9
24°	3593.4
25°	3450.9
26°	3303.5
27°	3143.2
28°	2974.8
29°	2790.2
30°	2591.0
32.5°	2032.3
35°	1429.9
37.5°	942.5
40°	617.0
42.5°	425.9
45°	294.7
47.5°	202.4
50°	134.4
52.5°	87.4
55°	58.3
57.5°	38.9
60°	25.9
62.5°	17.8
65°	13.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.1
70°	4.9
72.5°	3.2
75°	3.2
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)