

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: P244307

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244307  
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 EC8B50827 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4678.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 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

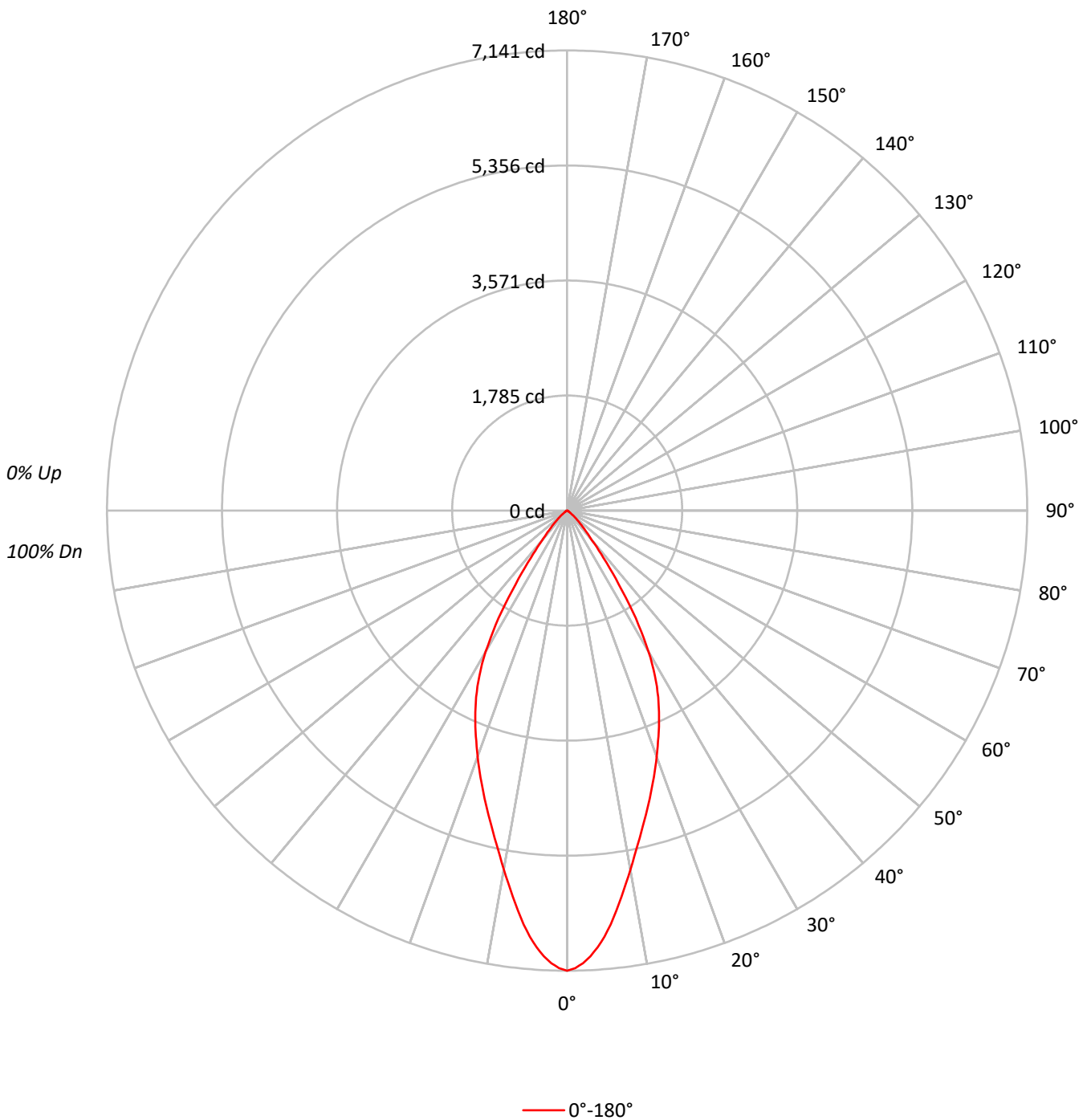
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	220202
5°	205396
10°	177051
15°	153223
20°	133289
25°	114549
30°	90007
35°	52514
40°	24229
45°	12538
50°	6289
55°	3059
60°	1560
65°	919
70°	424
75°	381
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.5	12.8
10°-20°	1342.0	28.7
20°-30°	1525.8	32.6
30°-40°	896.1	19.2
40°-50°	240.5	5.1
50°-60°	57.1	1.2
60°-70°	13.0	0.3
70°-80°	2.9	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°	3468.3	74.1
0°-40°	4364.3	93.3
0°-60°	4661.8	99.7
0°-90°	4678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7141	
5°	6636	601
15°	4800	1342
25°	3367	1526
35°	1395	896
45°	288	240
55°	57	57
65°	13	13
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7141.0
1°	7101.5
2°	7028.8
3°	6926.1
4°	6793.4
5°	6635.5
6°	6456.9
7°	6254.7
8°	6052.5
9°	5848.7
10°	5654.4
11°	5464.8
12°	5286.2
13°	5120.4
14°	4954.5
15°	4799.6
16°	4648.0
17°	4497.9
18°	4352.5
19°	4205.6
20°	4061.8
21°	3918.1
22°	3780.6
23°	3644.8
24°	3505.7
25°	3366.7
26°	3222.9
27°	3066.5
28°	2902.2
29°	2722.1
30°	2527.8
32.5°	1982.7
35°	1395.0
37.5°	919.5
40°	601.9
42.5°	415.5
45°	287.5
47.5°	197.5
50°	131.1
52.5°	85.3
55°	56.9
57.5°	37.9
60°	25.3
62.5°	17.4
65°	12.6



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	7.9
70°	4.7
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)