

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: P244247

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50835 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5519.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

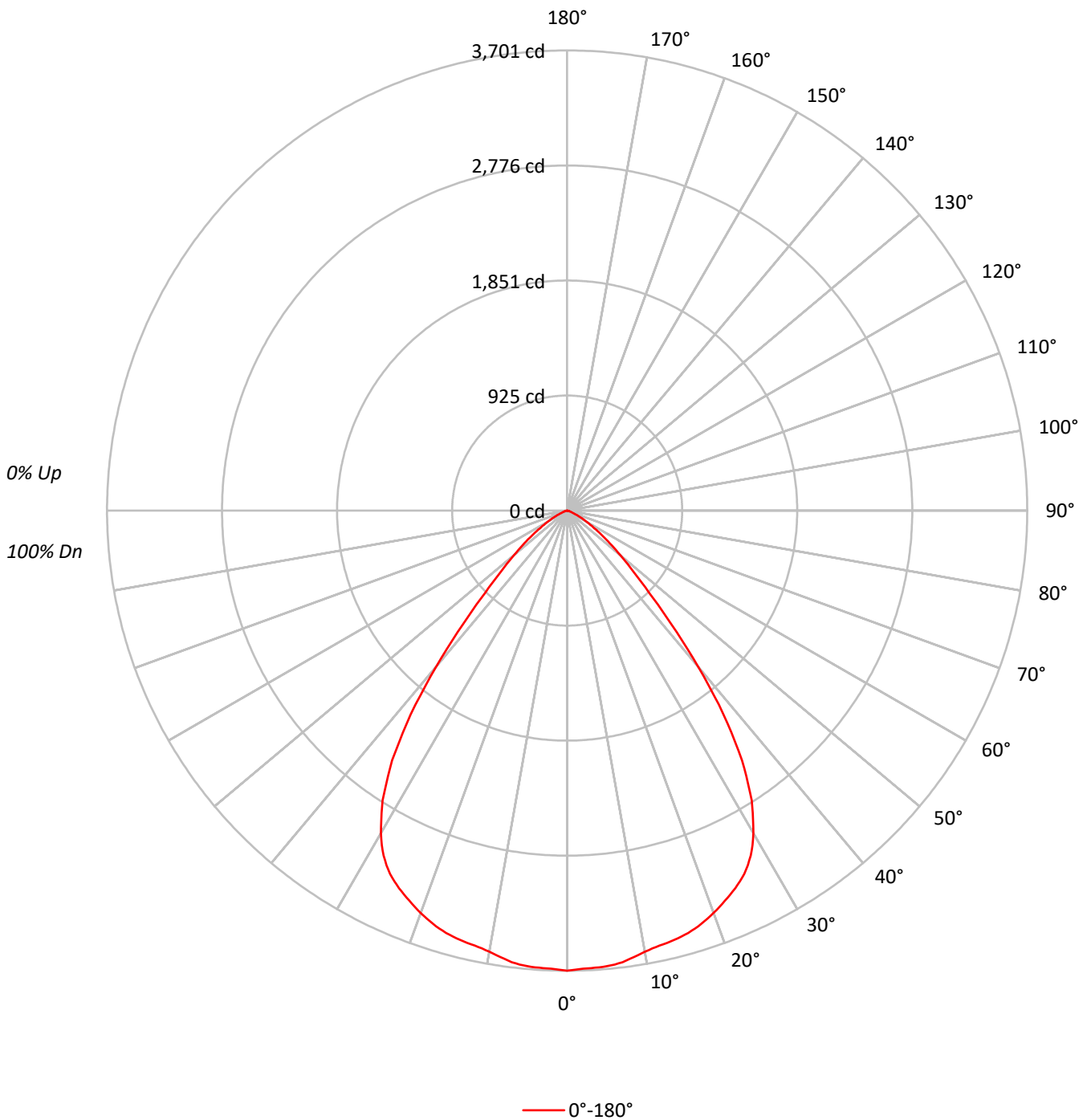
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65		73	68	64		71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59		68	62	58		66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62	57	53	52
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	64	53	47	42	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	114116
5°	113862
10°	112830
15°	113254
20°	113013
25°	111912
30°	106667
35°	92352
40°	65880
45°	40487
50°	26706
55°	17666
60°	11311
65°	6166
70°	3020
75°	1525
80°	852
85°	566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.7	6.3
10°-20°	1000.6	18.1
20°-30°	1505.8	27.3
30°-40°	1490.8	27.0
40°-50°	757.5	13.7
50°-60°	305.2	5.5
60°-70°	92.4	1.7
70°-80°	15.9	0.3
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°	2855.1	51.7
0°-40°	4346.0	78.7
0°-60°	5408.7	98.0
0°-90°	5519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5519.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3701	
5°	3678	349
15°	3548	1001
25°	3289	1506
35°	2453	1491
45°	928	758
55°	329	305
65°	84	92
75°	13	16
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3700.7
1°	3692.7
2°	3686.4
3°	3684.8
4°	3683.2
5°	3678.4
6°	3672.0
7°	3659.2
8°	3640.1
9°	3622.5
10°	3603.4
11°	3587.5
12°	3576.3
13°	3568.3
14°	3558.7
15°	3547.6
16°	3533.2
17°	3515.7
18°	3494.9
19°	3471.0
20°	3443.9
21°	3415.2
22°	3386.5
23°	3356.2
24°	3324.3
25°	3289.2
26°	3250.9
27°	3201.4
28°	3144.0
29°	3075.4
30°	2995.7
32.5°	2762.8
35°	2453.3
37.5°	2067.3
40°	1636.6
42.5°	1236.2
45°	928.4
47.5°	709.8
50°	556.7
52.5°	432.3
55°	328.6
57.5°	244.1
60°	183.4
62.5°	130.8
65°	84.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	52.6
70°	33.5
72.5°	20.7
75°	12.8
77.5°	8.0
80°	4.8
82.5°	3.2
85°	1.6
87.5°	0.0
90°	0.0

(END OF REPORT)