

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: P244289

Luminaire Tested: **LSR8B50D010 EC8B50950 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244289  
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 EC8B50950 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5089.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

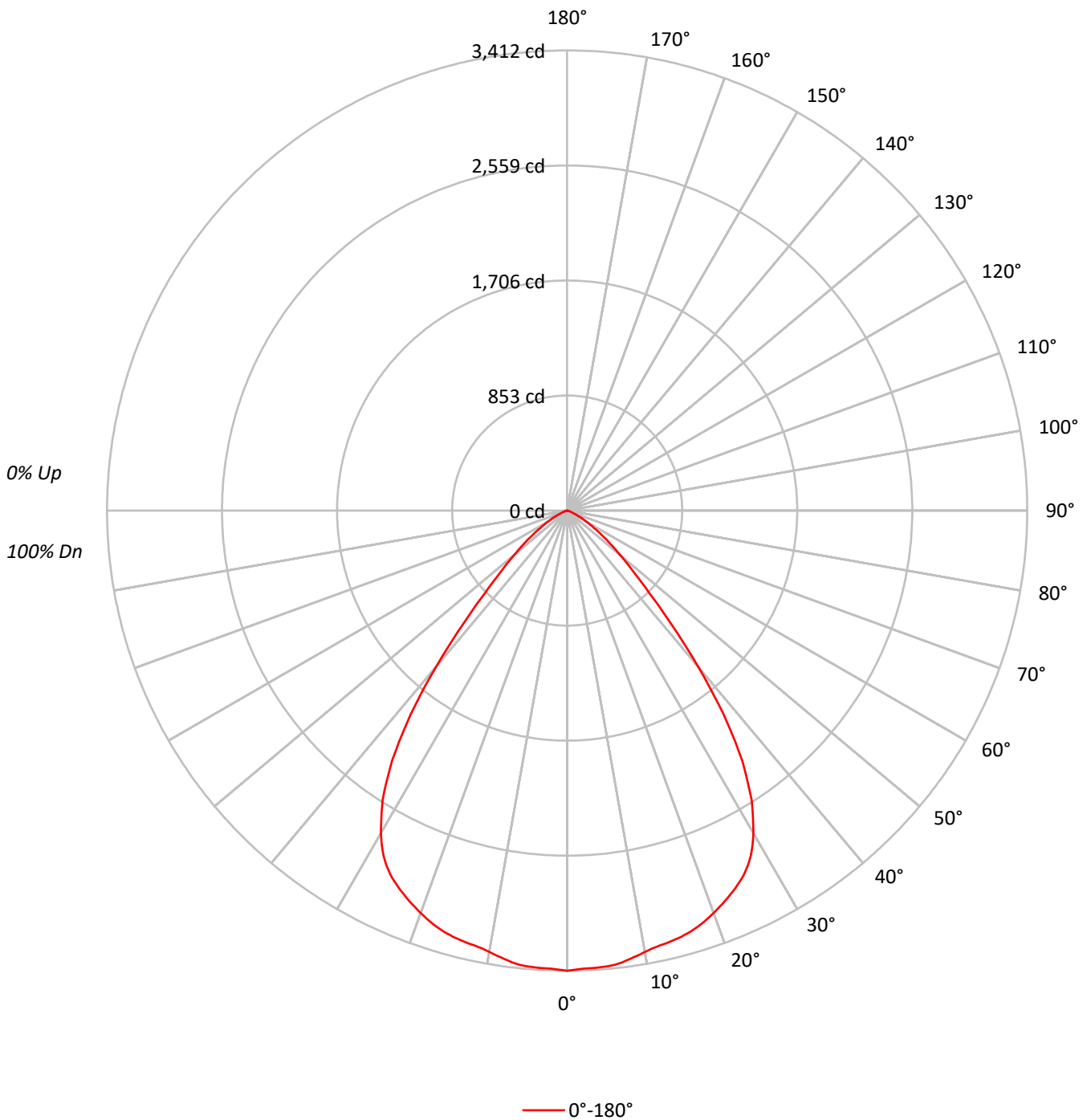
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	105226
5°	104990
10°	104040
15°	104430
20°	104208
25°	103192
30°	98356
35°	85159
40°	60747
45°	37329
50°	24624
55°	16290
60°	10429
65°	5691
70°	2786
75°	1406
80°	781
85°	531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.5	6.3
10°-20°	922.6	18.1
20°-30°	1388.5	27.3
30°-40°	1374.7	27.0
40°-50°	698.5	13.7
50°-60°	281.4	5.5
60°-70°	85.2	1.7
70°-80°	14.7	0.3
80°-90°	1.8	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°	2632.7	51.7
0°-40°	4007.4	78.7
0°-60°	4987.2	98.0
0°-90°	5089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5089.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3412	
5°	3392	322
15°	3271	923
25°	3033	1389
35°	2262	1375
45°	856	698
55°	303	281
65°	78	85
75°	12	15
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3412.4
1°	3405.0
2°	3399.1
3°	3397.7
4°	3396.2
5°	3391.8
6°	3385.9
7°	3374.1
8°	3356.5
9°	3340.3
10°	3322.7
11°	3307.9
12°	3297.7
13°	3290.3
14°	3281.5
15°	3271.2
16°	3257.9
17°	3241.8
18°	3222.6
19°	3200.6
20°	3175.6
21°	3149.1
22°	3122.6
23°	3094.7
24°	3065.3
25°	3032.9
26°	2997.6
27°	2952.0
28°	2899.0
29°	2835.8
30°	2762.3
32.5°	2547.5
35°	2262.2
37.5°	1906.2
40°	1509.1
42.5°	1139.9
45°	856.0
47.5°	654.5
50°	513.3
52.5°	398.6
55°	303.0
57.5°	225.0
60°	169.1
62.5°	120.6
65°	78.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	48.5
70°	30.9
72.5°	19.1
75°	11.8
77.5°	7.4
80°	4.4
82.5°	2.9
85°	1.5
87.5°	0.0
90°	0.0

(END OF REPORT)