

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: P244295

Luminaire Tested: **LSR8B50D010 EC8B509727 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244295  
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 EC8B509727 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3843.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

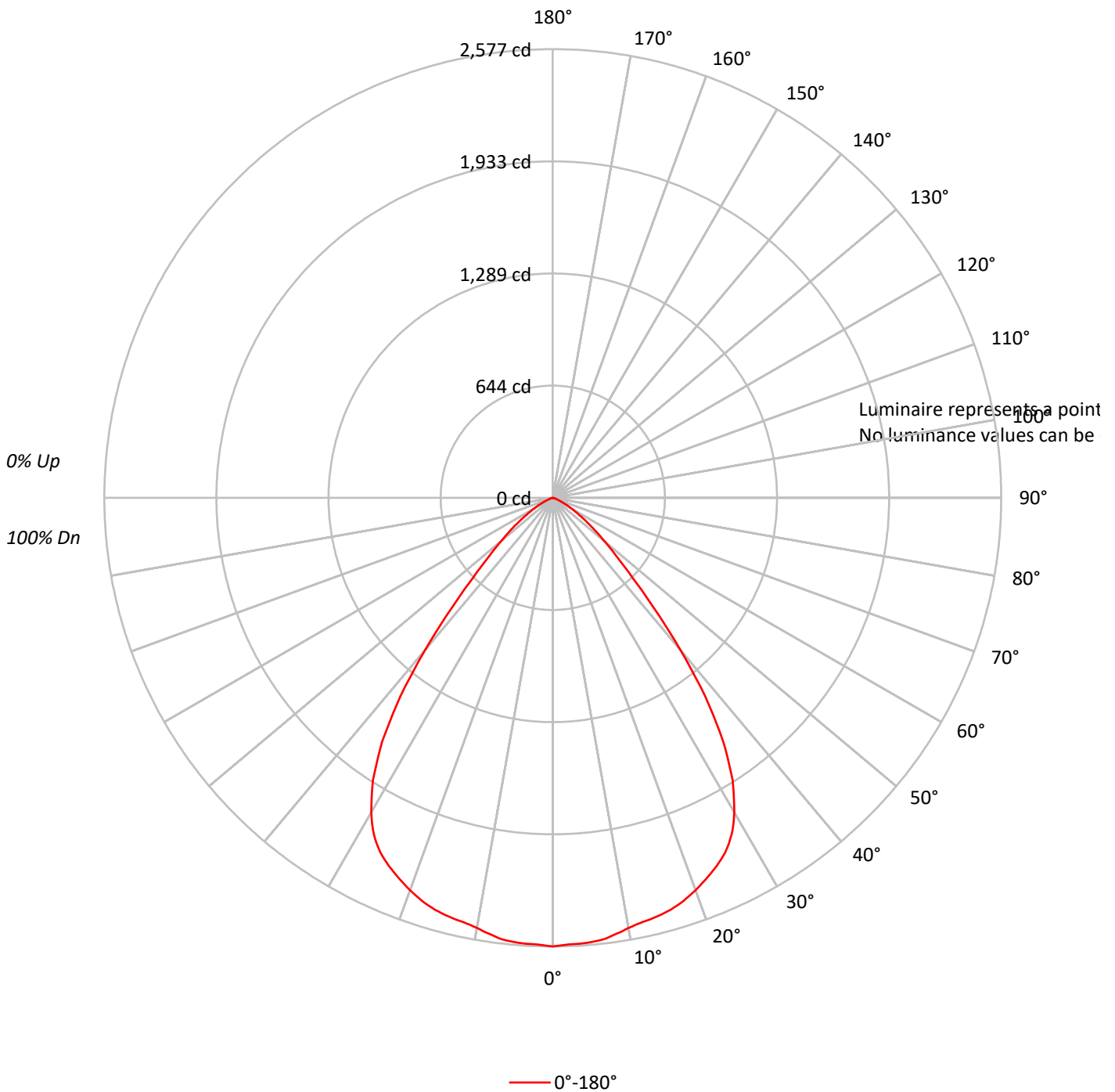
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.8	6.3
10°-20°	696.7	18.1
20°-30°	1048.5	27.3
30°-40°	1038.1	27.0
40°-50°	527.5	13.7
50°-60°	212.5	5.5
60°-70°	64.4	1.7
70°-80°	11.1	0.3
80°-90°	1.3	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°	1988.1	51.7
0°-40°	3026.2	78.7
0°-60°	3766.2	98.0
0°-90°	3843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2577	
5°	2561	243
15°	2470	697
25°	2290	1049
35°	1708	1038
45°	646	527
55°	229	212
65°	59	64
75°	9	11
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2576.9
1°	2571.3
2°	2566.9
3°	2565.8
4°	2564.7
5°	2561.3
6°	2556.9
7°	2548.0
8°	2534.7
9°	2522.5
10°	2509.1
11°	2498.0
12°	2490.2
13°	2484.7
14°	2478.0
15°	2470.3
16°	2460.3
17°	2448.0
18°	2433.6
19°	2416.9
20°	2398.1
21°	2378.1
22°	2358.1
23°	2337.0
24°	2314.8
25°	2290.3
26°	2263.7
27°	2229.2
28°	2189.2
29°	2141.5
30°	2085.9
32.5°	1923.8
35°	1708.3
37.5°	1439.5
40°	1139.6
42.5°	860.8
45°	646.4
47.5°	494.3
50°	387.6
52.5°	301.0
55°	228.8
57.5°	169.9
60°	127.7
62.5°	91.1
65°	58.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	36.7
70°	23.3
72.5°	14.4
75°	8.9
77.5°	5.6
80°	3.3
82.5°	2.2
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)