

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: P243827

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50850 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5883.9 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

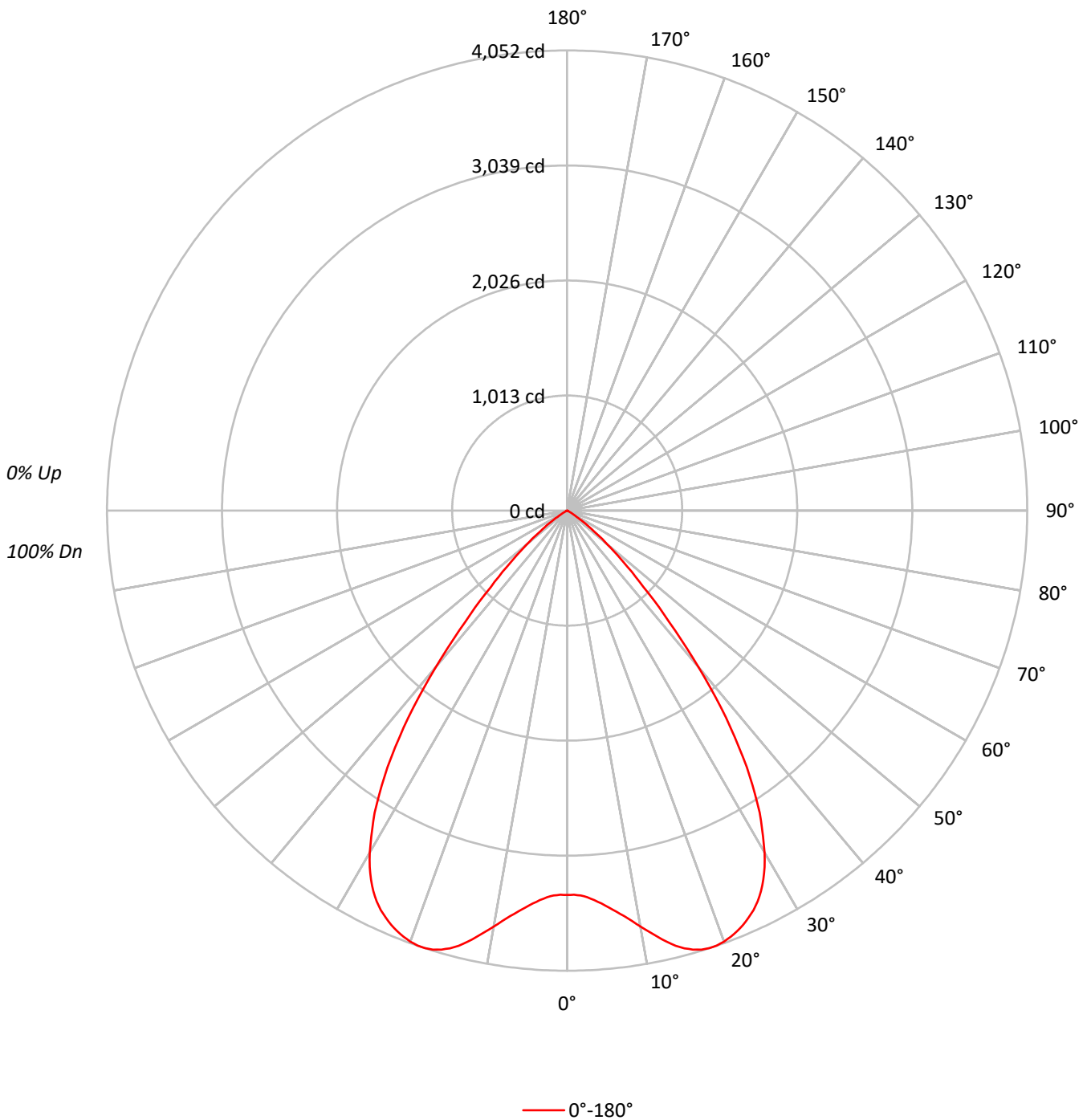
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

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

	0°
0°	104396
5°	107485
10°	116440
15°	127403
20°	132544
25°	132058
30°	123869
35°	103868
40°	72320
45°	41420
50°	22240
55°	9172
60°	2282
65°	584
70°	289
75°	191
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	5.8
10°-20°	1124.8	19.1
20°-30°	1769.8	30.1
30°-40°	1683.4	28.6
40°-50°	776.1	13.2
50°-60°	176.3	3.0
60°-70°	11.6	0.2
70°-80°	2.3	0.0
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°	3234.0	55.0
0°-40°	4917.4	83.6
0°-60°	5869.8	99.8
0°-90°	5883.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5883.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3386	
5°	3472	339
15°	3991	1125
25°	3881	1770
35°	2759	1683
45°	950	776
55°	171	176
65°	8	12
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3385.5
1°	3383.9
2°	3390.3
3°	3409.6
4°	3438.6
5°	3472.4
6°	3514.3
7°	3559.3
8°	3606.0
9°	3660.8
10°	3718.7
11°	3776.7
12°	3837.8
13°	3895.8
14°	3948.9
15°	3990.8
16°	4021.4
17°	4042.3
18°	4051.9
19°	4050.3
20°	4039.1
21°	4019.7
22°	3995.6
23°	3963.4
24°	3926.4
25°	3881.3
26°	3828.2
27°	3760.6
28°	3680.1
29°	3586.7
30°	3478.8
32.5°	3155.3
35°	2759.2
37.5°	2298.8
40°	1796.6
42.5°	1328.1
45°	949.8
47.5°	672.9
50°	463.6
52.5°	296.2
55°	170.6
57.5°	85.3
60°	37.0
62.5°	14.5
65°	8.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	4.8
70°	3.2
72.5°	3.2
75°	1.6
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)