

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: P246311

Luminaire Tested: **LSR8B50D010 EC8B509727 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-47)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B509727 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2440.0 lumens  
Efficiency: N/A  
Efficacy: 46.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

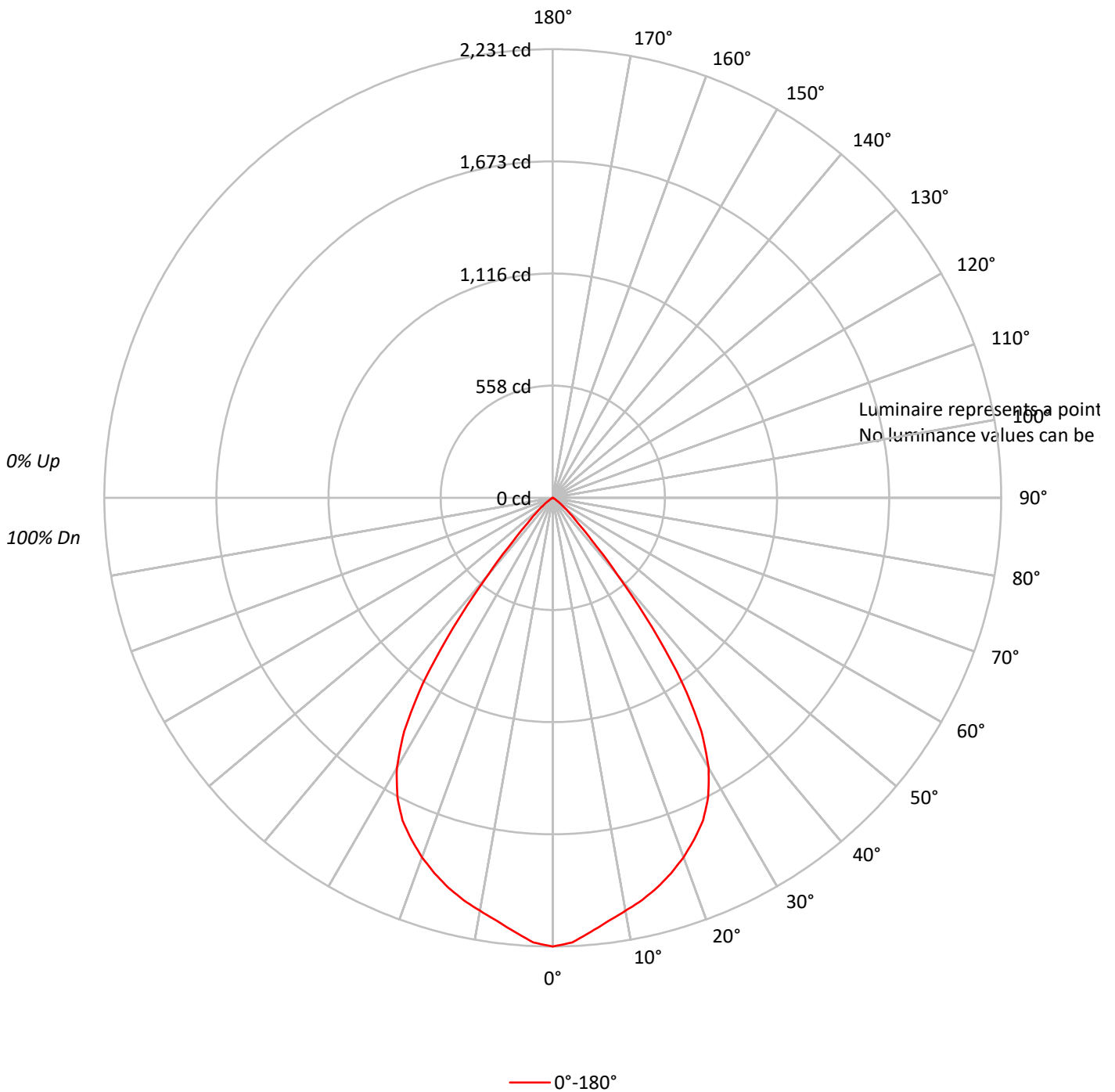
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93						
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86						
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80						
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	74						
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68						
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	65	63						
7	82	72	66	61	80	71	65	61	70	64	61	69	64	60	67	63	60	58						
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	54						
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51						
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47						

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	8.4
10°-20°	564.8	23.1
20°-30°	806.5	33.1
30°-40°	668.3	27.4
40°-50°	164.8	6.8
50°-60°	29.7	1.2
60°-70°	1.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	1575.5	64.6
0°-40°	2243.9	92.0
0°-60°	2438.3	99.9
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2231	
5°	2167	204
15°	2007	565
25°	1769	806
35°	1125	668
45°	176	165
55°	28	30
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2231.3
2.5°	2212.7
5°	2166.8
7.5°	2122.2
10°	2085.1
12.5°	2049.1
15°	2007.0
17.5°	1957.5
20°	1901.7
22.5°	1838.5
25°	1769.2
27.5°	1675.0
30°	1551.1
32.5°	1376.4
35°	1124.9
37.5°	812.7
40°	500.5
42.5°	291.1
45°	175.9
47.5°	116.5
50°	78.1
52.5°	50.8
55°	28.5
57.5°	13.6
60°	6.2
62.5°	2.5
65°	1.2
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)