

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: P245591

Luminaire Tested: **LSR8B50D010 EC8B509727 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B509727 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3433.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

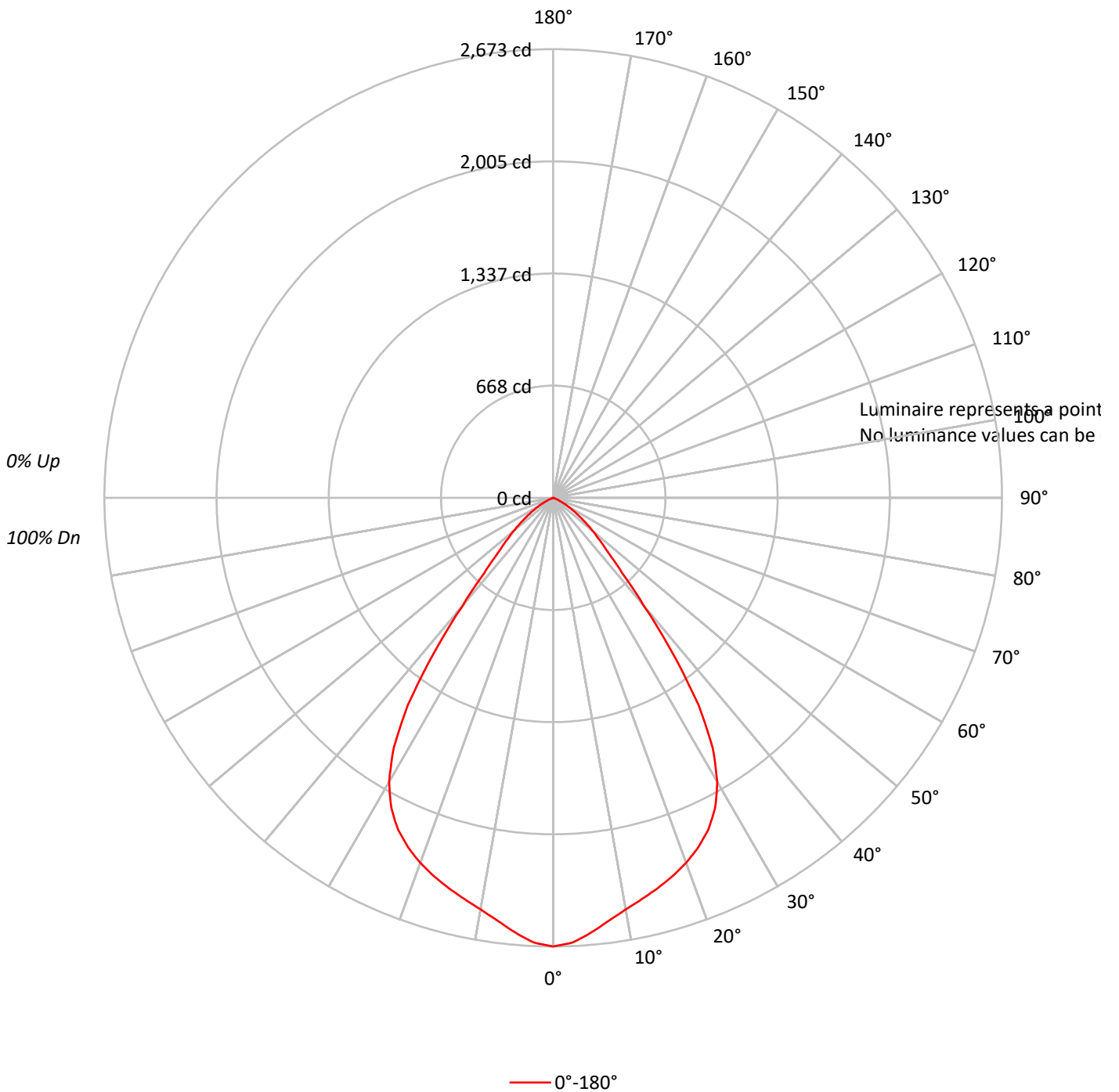
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100			
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70			
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64	64	64	64			
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54	54	54	54			
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49	49	49	49			
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46	46	46	46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43	43	43	43			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.6	7.1
10°-20°	679.2	19.8
20°-30°	997.4	29.1
30°-40°	904.1	26.3
40°-50°	387.0	11.3
50°-60°	171.3	5.0
60°-70°	45.7	1.3
70°-80°	3.6	0.1
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°	1921.1	56.0
0°-40°	2825.3	82.3
0°-60°	3383.6	98.6
0°-90°	3433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2673	
5°	2600	245
15°	2407	679
25°	2184	997
35°	1509	904
45°	467	387
55°	186	171
65°	42	46
75°	2	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2673.1
2.5°	2652.0
5°	2600.0
7.5°	2540.5
10°	2489.7
12.5°	2447.6
15°	2406.7
17.5°	2363.3
20°	2313.7
22.5°	2255.5
25°	2183.6
27.5°	2086.9
30°	1954.3
32.5°	1768.4
35°	1509.4
37.5°	1169.9
40°	842.7
42.5°	608.5
45°	467.2
47.5°	376.7
50°	306.1
52.5°	242.9
55°	185.9
57.5°	138.8
60°	101.6
62.5°	70.6
65°	42.1
67.5°	18.6
70°	8.7
72.5°	5.0
75°	2.5
77.5°	1.2
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)