

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: P244439

Luminaire Tested: **LSR8B50D010 EC8B509727 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B509727 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG 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: 3778.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

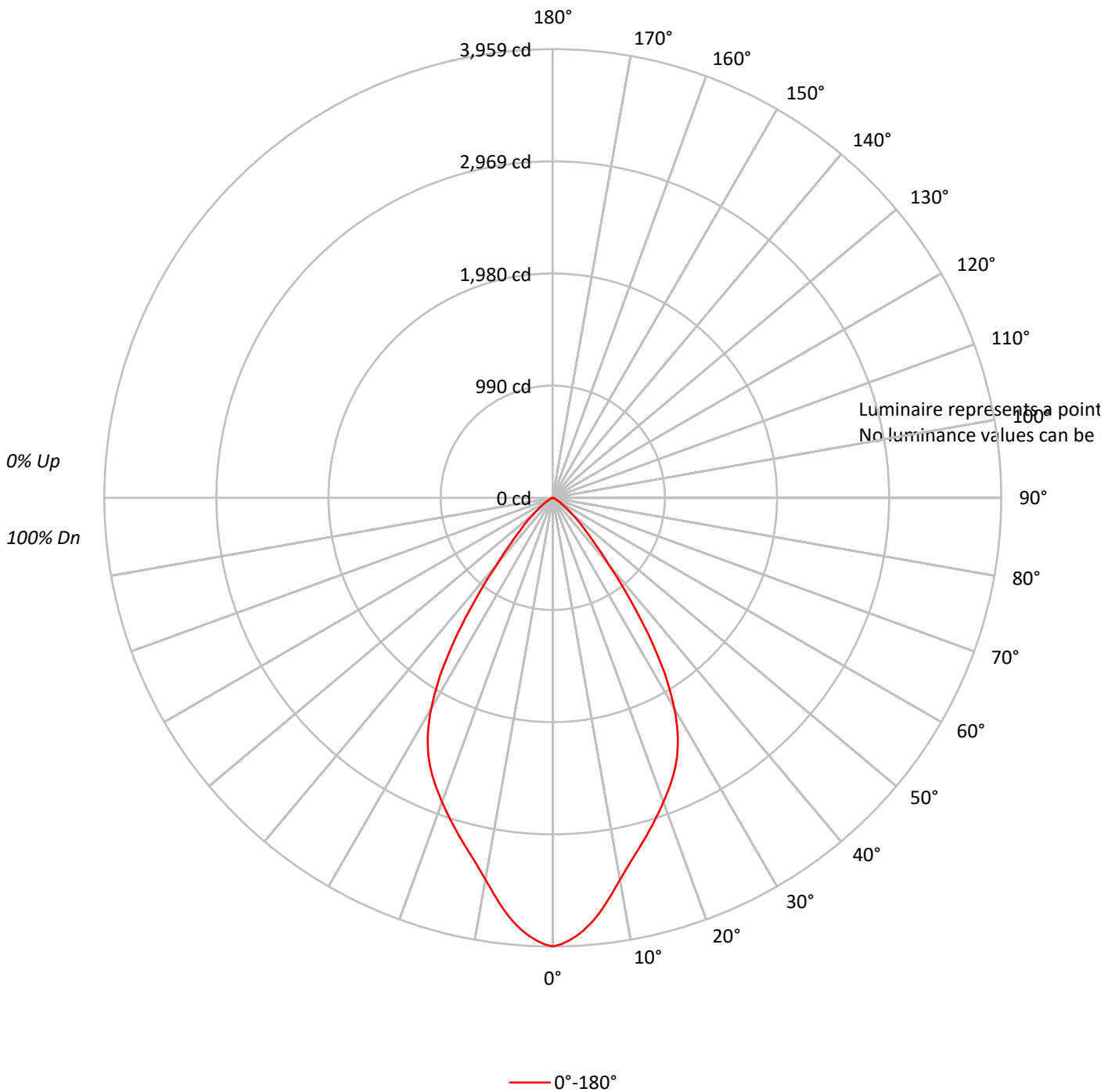
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	9.2
10°-20°	877.7	23.2
20°-30°	1171.1	31.0
30°-40°	902.7	23.9
40°-50°	336.6	8.9
50°-60°	110.1	2.9
60°-70°	25.4	0.7
70°-80°	5.1	0.1
80°-90°	0.7	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°	2397.5	63.5
0°-40°	3300.1	87.4
0°-60°	3746.8	99.2
0°-90°	3778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3778.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3959	
5°	3776	349
15°	3122	878
25°	2578	1171
35°	1468	903
45°	409	337
55°	116	110
65°	23	25
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3958.8
1°	3941.7
2°	3912.8
3°	3875.8
4°	3830.7
5°	3776.5
6°	3715.1
7°	3644.7
8°	3569.8
9°	3492.2
10°	3420.9
11°	3352.3
12°	3288.2
13°	3229.5
14°	3175.4
15°	3122.1
16°	3068.0
17°	3015.6
18°	2961.5
19°	2908.2
20°	2856.8
21°	2803.5
22°	2752.1
23°	2697.9
24°	2641.0
25°	2577.9
26°	2508.3
27°	2431.6
28°	2346.8
29°	2252.0
30°	2148.2
32.5°	1844.0
35°	1468.5
37.5°	1087.6
40°	769.9
42.5°	551.5
45°	408.9
47.5°	307.8
50°	227.5
52.5°	162.5
55°	115.5
57.5°	79.4
60°	52.4
62.5°	34.3
65°	22.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	15.3
70°	9.9
72.5°	6.3
75°	4.5
77.5°	2.7
80°	1.8
82.5°	0.9
85°	0.9
87.5°	0.0
90°	0.0

(END OF REPORT)