

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: P250955

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70950 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6288.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

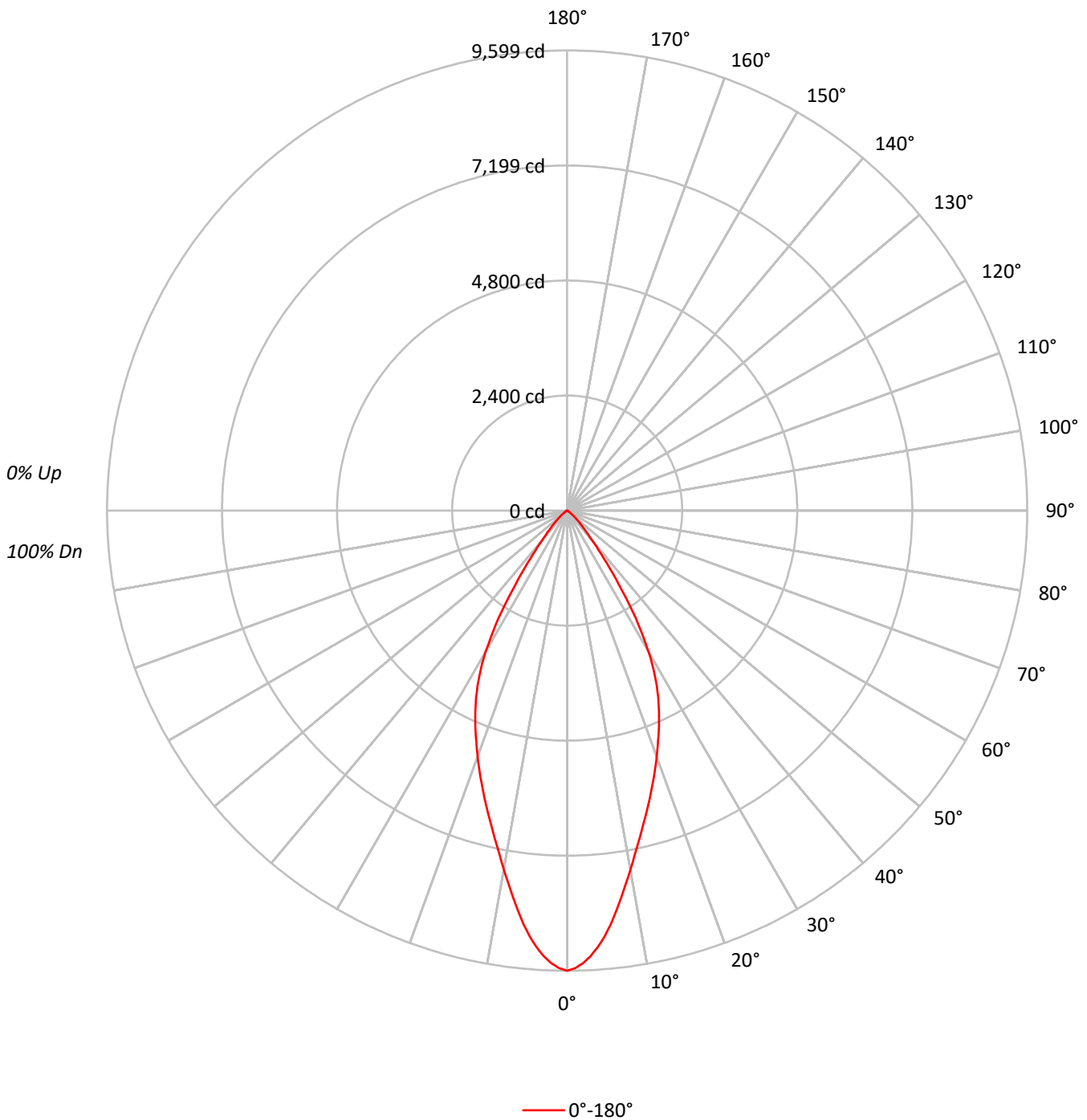
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	295989
5°	276083
10°	237984
15°	205958
20°	179165
25°	153973
30°	120984
35°	70587
40°	32569
45°	16855
50°	8458
55°	4107
60°	2097
65°	1240
70°	577
75°	500
80°	373
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.2	12.8
10°-20°	1803.8	28.7
20°-30°	2050.9	32.6
30°-40°	1204.4	19.2
40°-50°	323.3	5.1
50°-60°	76.7	1.2
60°-70°	17.5	0.3
70°-80°	3.9	0.1
80°-90°	0.3	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°	4661.9	74.1
0°-40°	5866.4	93.3
0°-60°	6266.3	99.7
0°-90°	6288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6288.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9599	
5°	8919	807
15°	6452	1804
25°	4525	2051
35°	1875	1204
45°	386	323
55°	76	77
65°	17	17
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9598.7
1°	9545.6
2°	9447.9
3°	9309.9
4°	9131.5
5°	8919.1
6°	8679.2
7°	8407.3
8°	8135.5
9°	7861.6
10°	7600.4
11°	7345.5
12°	7105.6
13°	6882.6
14°	6659.6
15°	6451.5
16°	6247.6
17°	6045.9
18°	5850.5
19°	5653.0
20°	5459.8
21°	5266.5
22°	5081.8
23°	4899.2
24°	4712.3
25°	4525.4
26°	4332.2
27°	4121.9
28°	3901.1
29°	3659.0
30°	3397.8
32.5°	2665.1
35°	1875.1
37.5°	1235.9
40°	809.1
42.5°	558.5
45°	386.5
47.5°	265.5
50°	176.3
52.5°	114.7
55°	76.4
57.5°	51.0
60°	34.0
62.5°	23.4
65°	17.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	10.6
70°	6.4
72.5°	4.2
75°	4.2
77.5°	2.1
80°	2.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)