

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: P251131

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70830 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6754.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

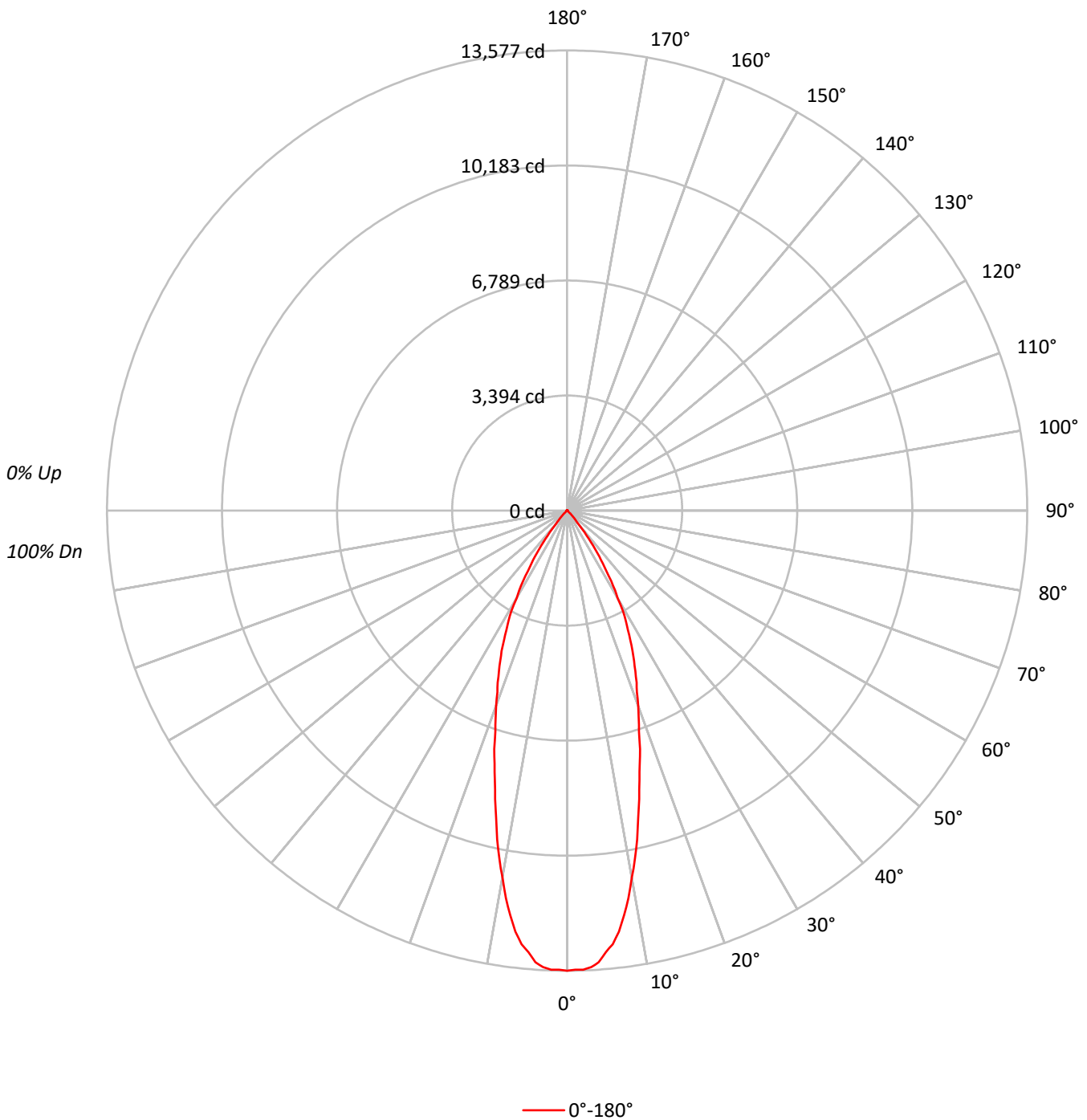
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	418671
5°	404877
10°	344323
15°	262802
20°	200846
25°	155640
30°	106154
35°	62365
40°	19068
45°	7501
50°	115
55°	129
60°	148
65°	343
70°	640
75°	560
80°	426
85°	2512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1185.8	17.6
10°-20°	2297.8	34.0
20°-30°	2068.7	30.6
30°-40°	1023.5	15.2
40°-50°	155.7	2.3
50°-60°	6.4	0.1
60°-70°	8.2	0.1
70°-80°	3.1	0.0
80°-90°	4.8	0.1
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°	5552.2	82.2
0°-40°	6575.7	97.4
0°-60°	6737.9	99.8
0°-90°	6754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6754.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13577	
5°	13080	###
15°	8232	2298
25°	4574	2069
35°	1657	1023
45°	172	156
55°	2	6
65°	5	8
75°	5	3
85°	7	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13577.2
1°	13548.9
2°	13555.9
3°	13487.6
4°	13362.7
5°	13079.9
6°	12863.1
7°	12519.0
8°	12057.1
9°	11576.3
10°	10996.5
11°	10478.0
12°	9921.9
13°	9306.8
14°	8776.5
15°	8232.1
16°	7767.8
17°	7357.7
18°	6853.4
19°	6483.3
20°	6120.5
21°	5743.3
22°	5467.6
23°	5147.1
24°	4852.5
25°	4574.4
26°	4246.8
27°	3952.3
28°	3688.3
29°	3398.4
30°	2981.3
31°	2745.6
32°	2448.6
33°	2123.4
34°	1875.9
35°	1656.7
37.5°	1048.7
40°	473.7
42.5°	322.9
45°	172.0
47.5°	96.6
50°	2.4
52.5°	9.5
55°	2.4
57.5°	14.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.4
62.5°	11.8
65°	4.7
67.5°	11.8
70°	7.1
72.5°	2.4
75°	4.7
77.5°	0.0
80°	2.4
82.5°	9.5
85°	7.1
87.5°	0.0
90°	0.0

(END OF REPORT)