

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: P251147

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251147
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 EC8B70950 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6477.0 lumens
Efficiency: N/A
Efficacy: 85.3 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

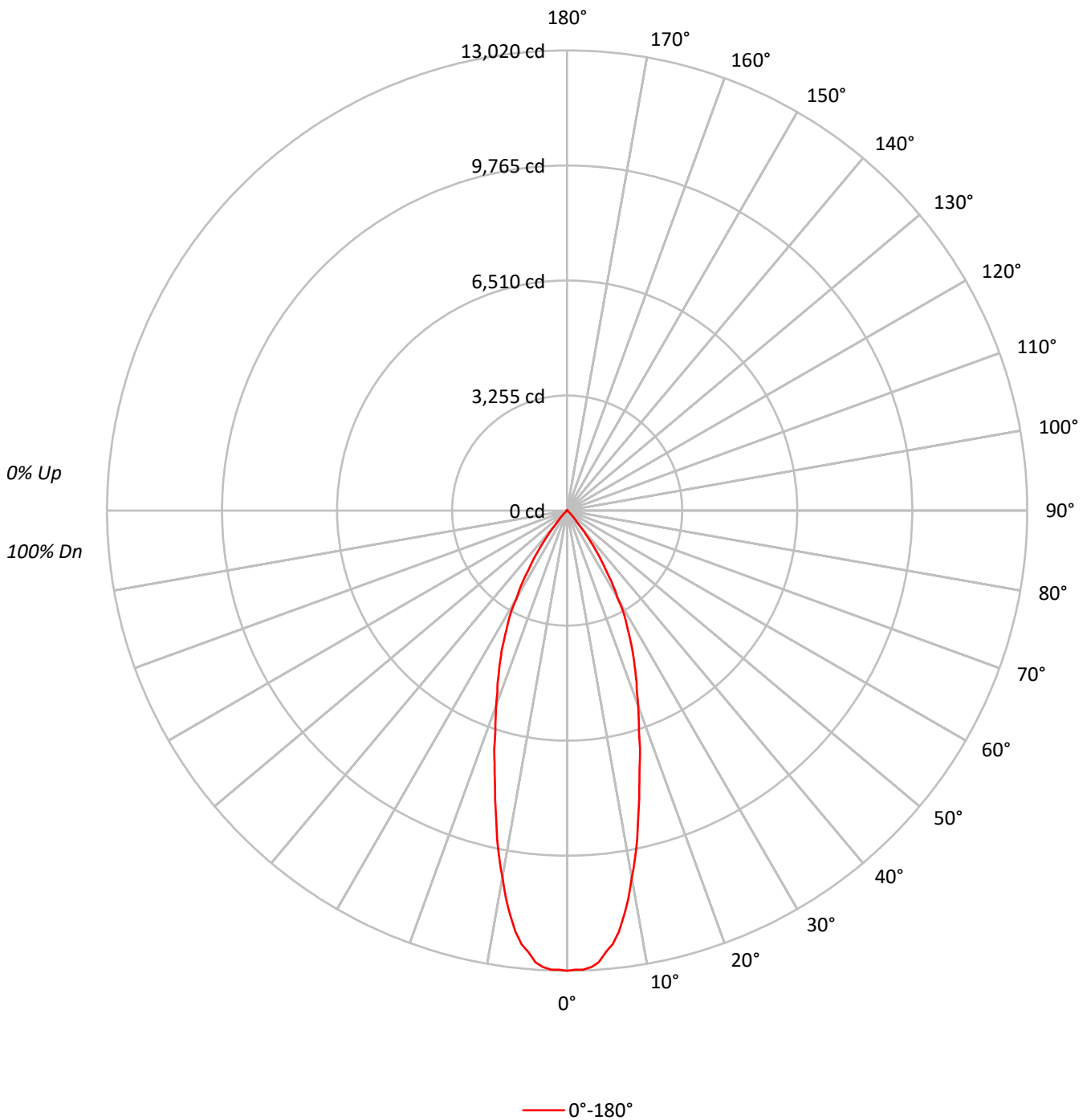
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	401498
5°	388273
10°	330201
15°	252022
20°	192610
25°	149257
30°	101800
35°	59809
40°	18287
45°	7196
50°	110
55°	124
60°	142
65°	328
70°	613
75°	536
80°	408
85°	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.1	17.6
10°-20°	2203.5	34.0
20°-30°	1983.9	30.6
30°-40°	981.5	15.2
40°-50°	149.3	2.3
50°-60°	6.2	0.1
60°-70°	7.9	0.1
70°-80°	3.0	0.0
80°-90°	4.6	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°	5324.5	82.2
0°-40°	6306.1	97.4
0°-60°	6461.5	99.8
0°-90°	6477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6477.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13020	
5°	12544	###
15°	7894	2204
25°	4387	1984
35°	1589	982
45°	165	149
55°	2	6
65°	4	8
75°	4	3
85°	7	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13020.3
1°	12993.2
2°	12999.9
3°	12934.4
4°	12814.7
5°	12543.5
6°	12335.5
7°	12005.6
8°	11562.6
9°	11101.5
10°	10545.5
11°	10048.3
12°	9515.0
13°	8925.1
14°	8416.5
15°	7894.4
16°	7449.2
17°	7056.0
18°	6572.3
19°	6217.4
20°	5869.5
21°	5507.8
22°	5243.4
23°	4936.0
24°	4653.5
25°	4386.8
26°	4072.6
27°	3790.2
28°	3537.0
29°	3259.0
30°	2859.0
31°	2633.0
32°	2348.2
33°	2036.3
34°	1799.0
35°	1588.8
37.5°	1005.7
40°	454.3
42.5°	309.6
45°	165.0
47.5°	92.6
50°	2.3
52.5°	9.1
55°	2.3
57.5°	13.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.3
62.5°	11.3
65°	4.5
67.5°	11.3
70°	6.8
72.5°	2.3
75°	4.5
77.5°	0.0
80°	2.3
82.5°	9.1
85°	6.8
87.5°	0.0
90°	0.0

(END OF REPORT)