

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: P251145

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251145
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 EC8B70940 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6256.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

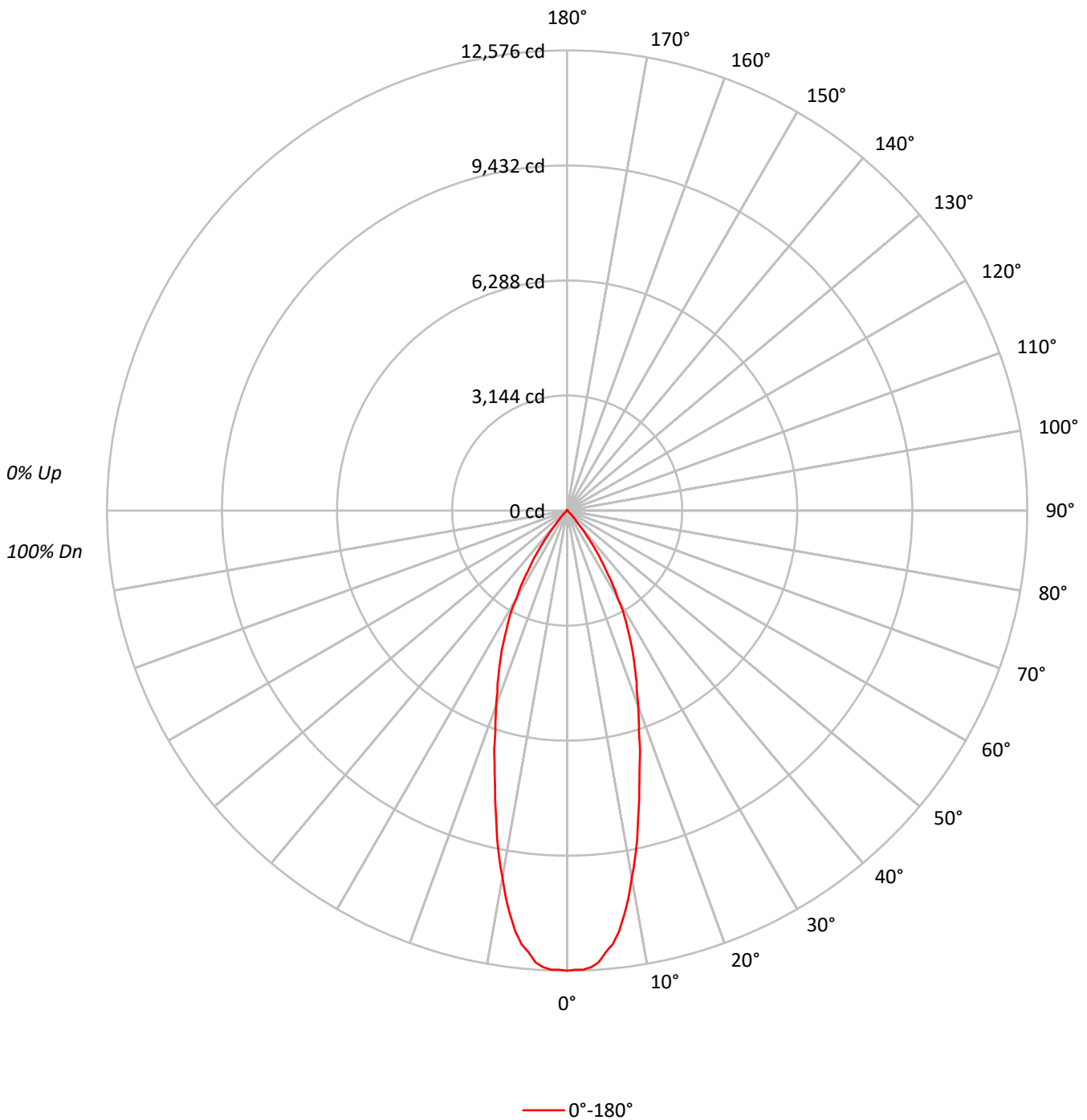
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	387801
5°	375024
10°	318935
15°	243424
20°	186037
25°	144164
30°	98324
35°	57769
40°	17663
45°	6947
50°	106
55°	118
60°	136
65°	321
70°	595
75°	524
80°	391
85°	2335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.3	17.6
10°-20°	2128.3	34.0
20°-30°	1916.2	30.6
30°-40°	948.0	15.2
40°-50°	144.2	2.3
50°-60°	5.9	0.1
60°-70°	7.6	0.1
70°-80°	2.9	0.0
80°-90°	4.5	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°	5142.9	82.2
0°-40°	6090.9	97.4
0°-60°	6241.0	99.8
0°-90°	6256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6256.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12576	
5°	12116	###
15°	7625	2128
25°	4237	1916
35°	1535	948
45°	159	144
55°	2	6
65°	4	8
75°	4	3
85°	7	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12576.1
1°	12549.9
2°	12556.4
3°	12493.1
4°	12377.4
5°	12115.5
6°	11914.6
7°	11595.9
8°	11168.1
9°	10722.7
10°	10185.7
11°	9705.5
12°	9190.3
13°	8620.5
14°	8129.4
15°	7625.1
16°	7195.0
17°	6815.2
18°	6348.1
19°	6005.3
20°	5669.2
21°	5319.9
22°	5064.5
23°	4767.6
24°	4494.7
25°	4237.1
26°	3933.7
27°	3660.9
28°	3416.3
29°	3147.8
30°	2761.4
31°	2543.2
32°	2268.1
33°	1966.8
34°	1737.6
35°	1534.6
37.5°	971.4
40°	438.8
42.5°	299.1
45°	159.3
47.5°	89.5
50°	2.2
52.5°	8.8
55°	2.2
57.5°	13.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.2
62.5°	10.9
65°	4.4
67.5°	10.9
70°	6.6
72.5°	2.2
75°	4.4
77.5°	0.0
80°	2.2
82.5°	8.8
85°	6.6
87.5°	0.0
90°	0.0

(END OF REPORT)