

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: P251473

Luminaire Tested: **LSR8B70D010 EC8B709730 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B709730 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6233.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

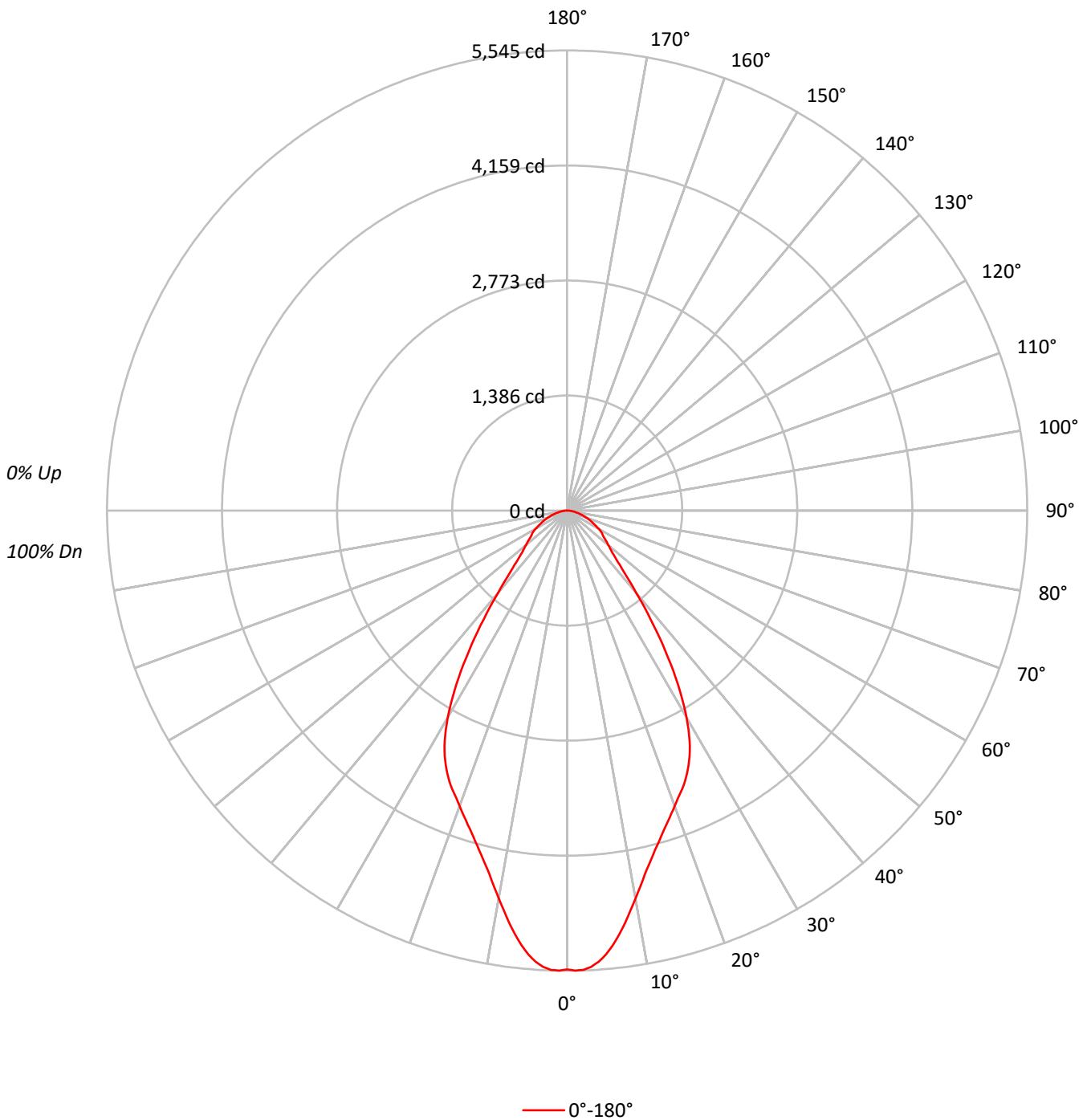
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	170500
5°	166177
10°	148560
15°	133500
20°	124324
25°	117125
30°	102405
35°	77596
40°	52113
45°	36732
50°	31154
55°	28408
60°	26920
65°	24217
70°	21782
75°	19587
80°	17243
85°	16629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.4	7.9
10°-20°	1179.3	18.9
20°-30°	1562.8	25.1
30°-40°	1281.5	20.6
40°-50°	682.6	11.0
50°-60°	480.5	7.7
60°-70°	331.3	5.3
70°-80°	172.5	2.8
80°-90°	51.1	0.8
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°	3233.5	51.9
0°-40°	4515.0	72.4
0°-60°	5678.1	91.1
0°-90°	6233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6233.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5529	
5°	5368	491
15°	4182	1179
25°	3442	1563
35°	2061	1281
45°	842	683
55°	528	480
65°	332	331
75°	164	172
85°	47	51
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5529.2
1°	5544.9
2°	5538.2
3°	5505.4
4°	5449.2
5°	5368.5
6°	5267.7
7°	5146.5
8°	5016.5
9°	4878.2
10°	4744.5
11°	4616.6
12°	4486.7
13°	4378.3
14°	4275.6
15°	4181.8
16°	4093.5
17°	4012.0
18°	3936.5
19°	3861.0
20°	3788.6
21°	3718.2
22°	3656.8
23°	3594.0
24°	3520.2
25°	3442.4
26°	3354.2
27°	3254.9
28°	3142.8
29°	3018.6
30°	2876.0
31°	2726.5
32°	2569.5
33°	2402.1
34°	2233.9
35°	2061.3
37.5°	1651.7
40°	1294.6
42.5°	1022.4
45°	842.3
47.5°	723.4
50°	649.4
52.5°	584.5
55°	528.4
57.5°	494.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	436.5
62.5°	380.5
65°	331.9
67.5°	288.6
70°	241.6
72.5°	201.7
75°	164.4
77.5°	118.9
80°	97.1
82.5°	70.3
85°	47.0
87.5°	21.8
90°	0.0

(END OF REPORT)