

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: P251467

Luminaire Tested: **LD8B70D010 ER8B70840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251467
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: LD8B70D010 ER8B70840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7494.9 lumens
Efficiency: N/A
Efficacy: 98.7 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

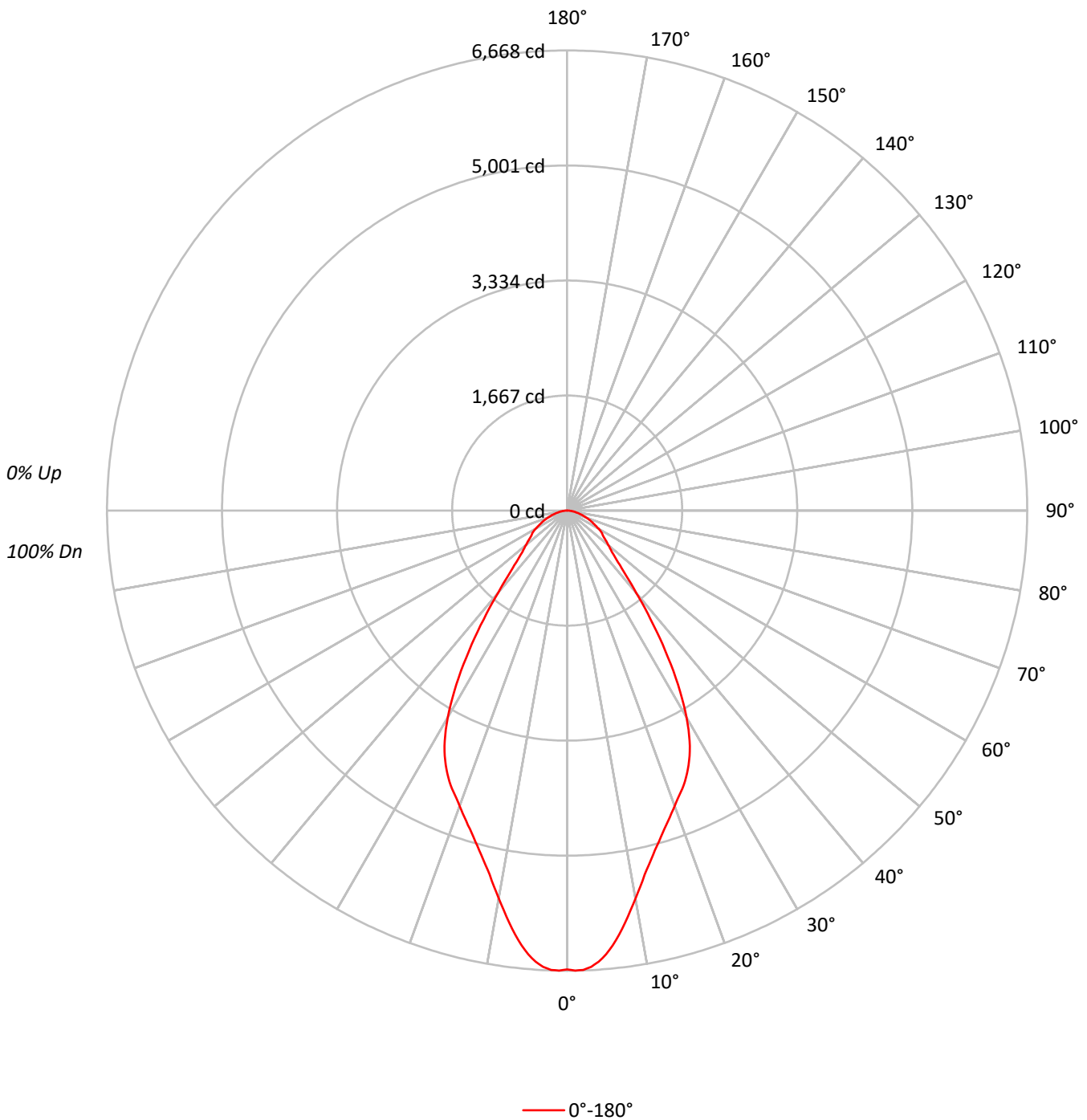
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251467

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P251467

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBM0MW

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°	205021
5°	199824
10°	178638
15°	160530
20°	149497
25°	140839
30°	123139
35°	93305
40°	62667
45°	44172
50°	37457
55°	34155
60°	32366
65°	29120
70°	26191
75°	23554
80°	20741
85°	19990



TEST NUMBER: P251467

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.9	7.9
10°-20°	1418.1	18.9
20°-30°	1879.2	25.1
30°-40°	1541.0	20.6
40°-50°	820.8	11.0
50°-60°	577.7	7.7
60°-70°	398.4	5.3
70°-80°	207.4	2.8
80°-90°	61.4	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°	3888.2	51.9
0°-40°	5429.2	72.4
0°-60°	6827.7	91.1
0°-90°	7494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7494.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6649	
5°	6456	591
15°	5028	1418
25°	4139	1879
35°	2479	1541
45°	1013	821
55°	635	578
65°	399	398
75°	198	207
85°	56	61
90°	0	



TEST NUMBER: P251467

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	6648.7
1°	6667.6
2°	6659.5
3°	6620.0
4°	6552.6
5°	6455.5
6°	6334.2
7°	6188.5
8°	6032.2
9°	5865.9
10°	5705.1
11°	5551.3
12°	5395.1
13°	5264.8
14°	5141.3
15°	5028.5
16°	4922.3
17°	4824.3
18°	4733.5
19°	4642.7
20°	4555.7
21°	4471.0
22°	4397.2
23°	4321.7
24°	4232.9
25°	4139.4
26°	4033.4
27°	3913.9
28°	3779.1
29°	3629.8
30°	3458.3
31°	3278.5
32°	3089.8
33°	2888.4
34°	2686.2
35°	2478.6
37.5°	1986.1
40°	1556.8
42.5°	1229.4
45°	1012.9
47.5°	869.8
50°	780.8
52.5°	702.8
55°	635.3
57.5°	594.1



TEST NUMBER: P251467

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	524.8
62.5°	457.6
65°	399.1
67.5°	347.0
70°	290.5
72.5°	242.6
75°	197.7
77.5°	143.0
80°	116.8
82.5°	84.5
85°	56.5
87.5°	26.2
90°	0.0

(END OF REPORT)