

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: P251445

Luminaire Tested: **LD8B70D010 ER8B70840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201839)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6888.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

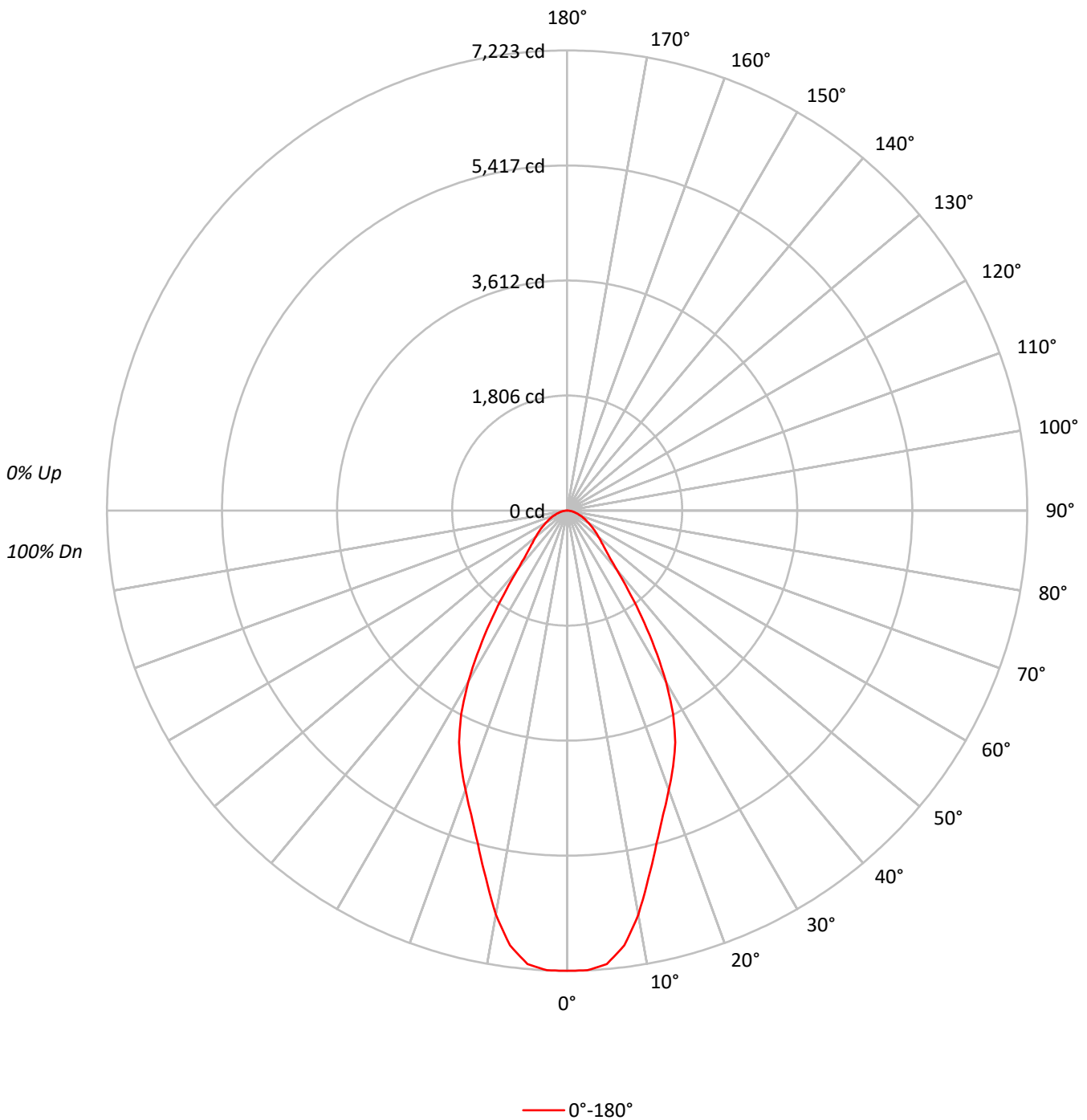
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251445

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P251445

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBN0MW

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	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222743
5°	221145
10°	201524
15°	172735
20°	153087
25°	136607
30°	110324
35°	76546
40°	48566
45°	36078
50°	30794
55°	26999
60°	24157
65°	21583
70°	18600
75°	17109
80°	15947
85°	14082



TEST NUMBER: P251445

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.0	9.6
10°-20°	1524.1	22.1
20°-30°	1812.5	26.3
30°-40°	1281.3	18.6
40°-50°	661.4	9.6
50°-60°	453.5	6.6
60°-70°	294.3	4.3
70°-80°	154.4	2.2
80°-90°	47.5	0.7
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°	3995.7	58.0
0°-40°	5277.0	76.6
0°-60°	6391.8	92.8
0°-90°	6888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6888.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7223	
5°	7144	659
15°	5411	1524
25°	4015	1813
35°	2033	1281
45°	827	661
55°	502	453
65°	296	294
75°	144	154
85°	40	44
90°	0	3
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P251445

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	7223.4
2.5°	7223.4
5°	7144.3
7.5°	6881.6
10°	6436.0
12.5°	5904.6
15°	5410.8
17.5°	5004.5
20°	4665.1
22.5°	4344.0
25°	4015.0
27.5°	3602.1
30°	3098.4
32.5°	2556.5
35°	2033.4
37.5°	1566.7
40°	1206.5
42.5°	970.9
45°	827.3
47.5°	723.0
50°	641.9
52.5°	570.8
55°	502.2
57.5°	441.7
60°	391.7
62.5°	339.5
65°	295.8
67.5°	256.3
70°	206.3
72.5°	177.2
75°	143.6
77.5°	116.6
80°	89.8
82.5°	66.8
85°	39.8
87.5°	22.9
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P251445

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBN0MW

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)