

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: P251451

Luminaire Tested: **LD8B70D010 ER8B70930 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251451
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 ER8B70930 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6421.1 lumens
Efficiency: N/A
Efficacy: 84.6 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

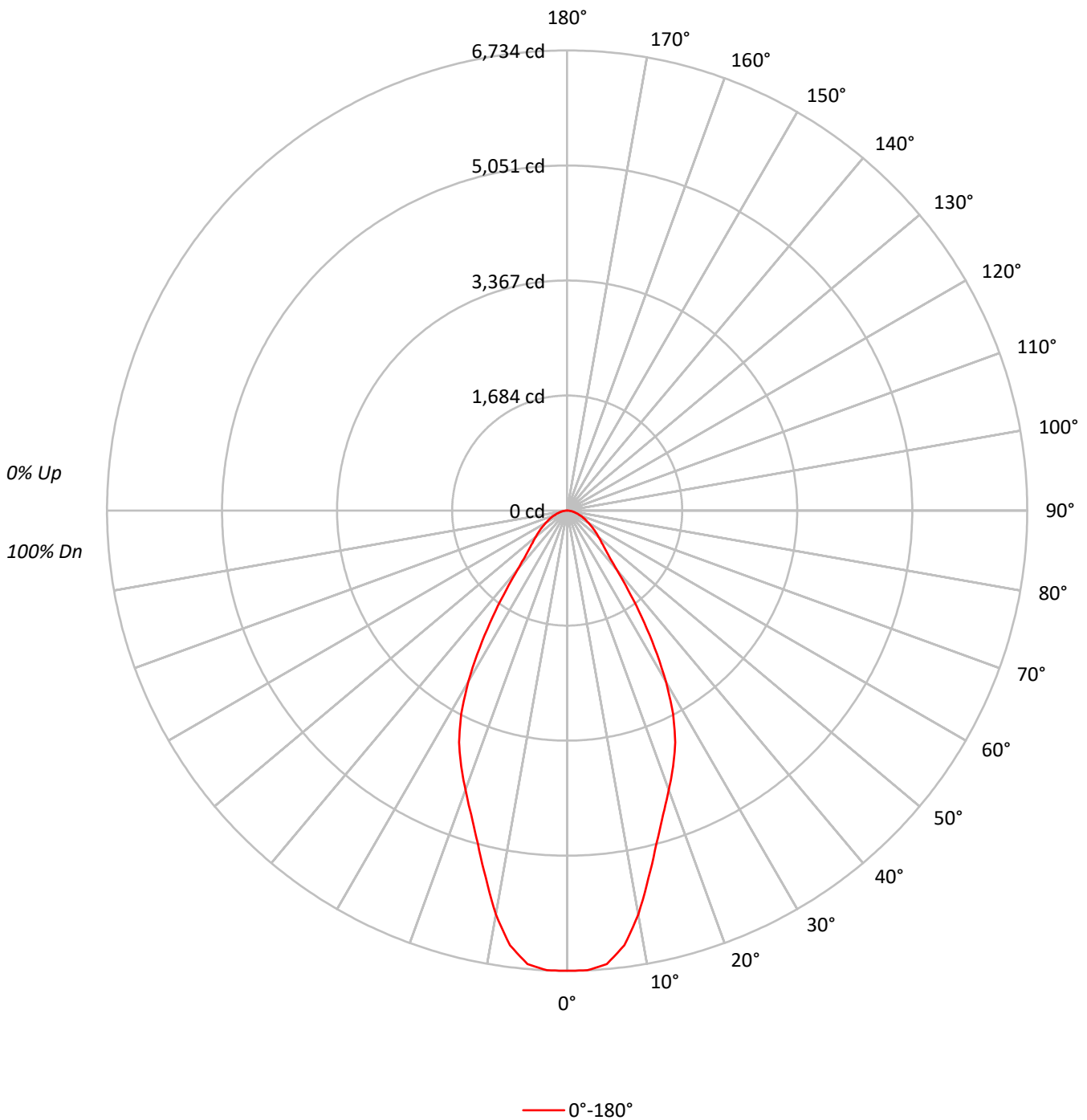
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251451

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P251451

CATALOG NUMBER: LD8B70D010 ER8B70930 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°	207642
5°	206154
10°	187866
15°	161028
20°	142707
25°	127345
30°	102846
35°	71358
40°	45278
45°	33631
50°	28707
55°	25166
60°	22523
65°	20124
70°	17347
75°	15941
80°	14846
85°	13126



TEST NUMBER: P251451

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	9.6
10°-20°	1420.8	22.1
20°-30°	1689.7	26.3
30°-40°	1194.5	18.6
40°-50°	616.6	9.6
50°-60°	422.7	6.6
60°-70°	274.4	4.3
70°-80°	143.9	2.2
80°-90°	44.2	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°	3724.8	58.0
0°-40°	4919.3	76.6
0°-60°	5958.5	92.8
0°-90°	6421.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6421.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6734	
5°	6660	614
15°	5044	1421
25°	3743	1690
35°	1896	1194
45°	771	617
55°	468	423
65°	276	274
75°	134	144
85°	37	41
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: P251451

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	6733.7
2.5°	6733.7
5°	6660.0
7.5°	6415.1
10°	5999.8
12.5°	5504.3
15°	5044.1
17.5°	4665.3
20°	4348.8
22.5°	4049.5
25°	3742.8
27.5°	3358.0
30°	2888.4
32.5°	2383.1
35°	1895.6
37.5°	1460.4
40°	1124.8
42.5°	905.1
45°	771.2
47.5°	674.1
50°	598.4
52.5°	532.1
55°	468.1
57.5°	411.7
60°	365.2
62.5°	316.5
65°	275.8
67.5°	238.9
70°	192.4
72.5°	165.2
75°	133.8
77.5°	108.6
80°	83.6
82.5°	62.3
85°	37.1
87.5°	21.4
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: P251451

CATALOG NUMBER: LD8B70D010 ER8B70930 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)