

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: P246627

Luminaire Tested: **LD8B30D010 ER8B30840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246627
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: LD8B30D010 ER8B30840 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: 2830.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

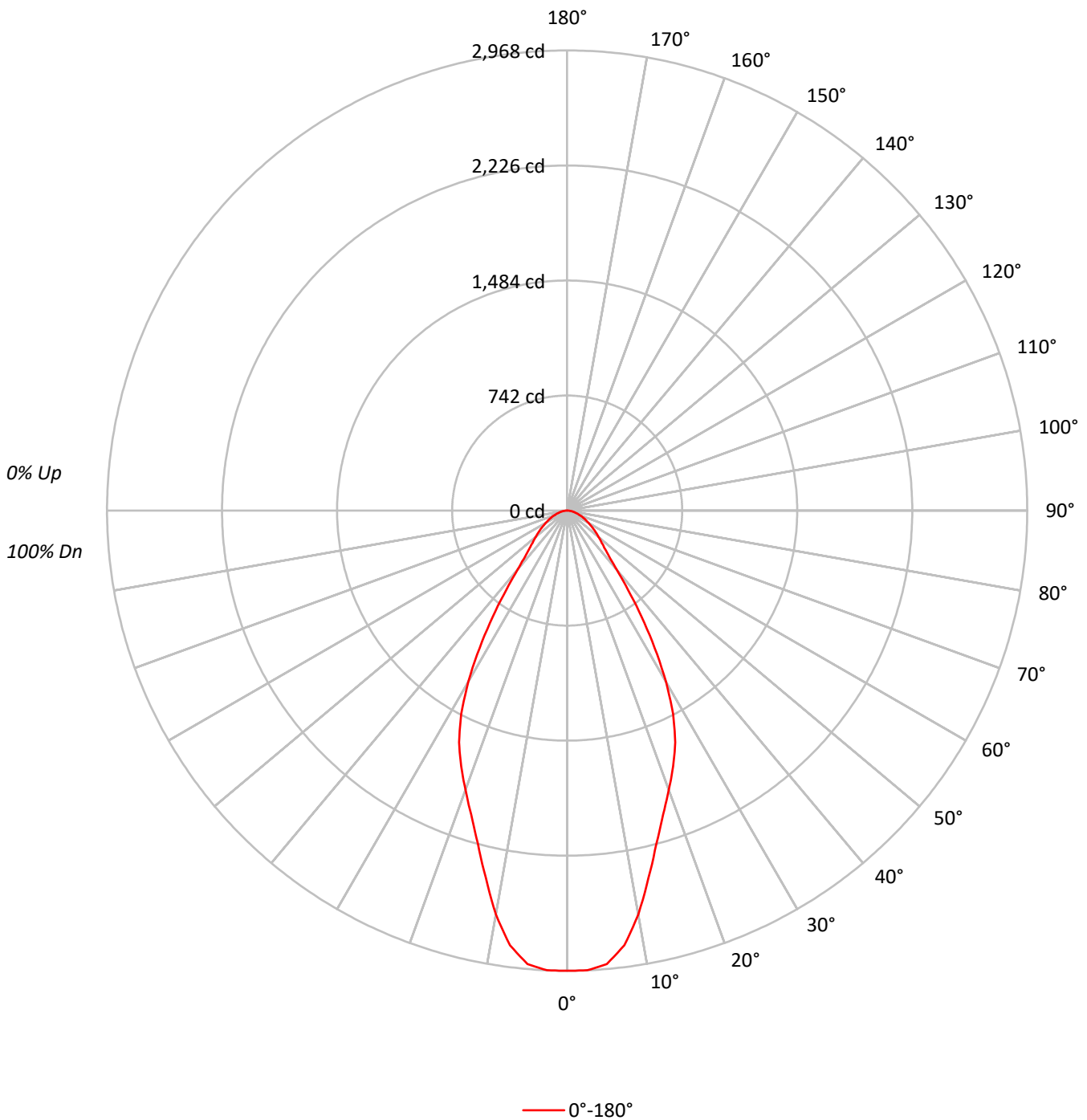
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246627

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBN0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246627

CATALOG NUMBER: LD8B30D010 ER8B30840 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°	91516
5°	90860
10°	82798
15°	70970
20°	62897
25°	56126
30°	45327
35°	31448
40°	19954
45°	14823
50°	12650
55°	11091
60°	9923
65°	8865
70°	7646
75°	7029
80°	6553
85°	5767



TEST NUMBER: P246627

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBN0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	9.6
10°-20°	626.2	22.1
20°-30°	744.7	26.3
30°-40°	526.4	18.6
40°-50°	271.7	9.6
50°-60°	186.3	6.6
60°-70°	120.9	4.3
70°-80°	63.4	2.2
80°-90°	19.5	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°	1641.7	58.0
0°-40°	2168.1	76.6
0°-60°	2626.1	92.8
0°-90°	2830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2830.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2968	
5°	2935	271
15°	2223	626
25°	1650	745
35°	835	526
45°	340	272
55°	206	186
65°	122	121
75°	59	63
85°	16	18
90°	0	1
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: P246627

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBN0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	2967.8
2.5°	2967.8
5°	2935.3
7.5°	2827.4
10°	2644.3
12.5°	2425.9
15°	2223.1
17.5°	2056.2
20°	1916.7
22.5°	1784.8
25°	1649.6
27.5°	1480.0
30°	1273.0
32.5°	1050.3
35°	835.4
37.5°	643.7
40°	495.7
42.5°	398.9
45°	339.9
47.5°	297.1
50°	263.7
52.5°	234.5
55°	206.3
57.5°	181.5
60°	160.9
62.5°	139.5
65°	121.5
67.5°	105.3
70°	84.8
72.5°	72.8
75°	59.0
77.5°	47.9
80°	36.9
82.5°	27.4
85°	16.3
87.5°	9.4
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: P246627

CATALOG NUMBER: LD8B30D010 ER8B30840 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)