

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: P245605

Luminaire Tested: **LD8B15D010 ER8B15830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B15D010 ER8B15830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1222.0 lumens
Efficiency: 56.0%
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

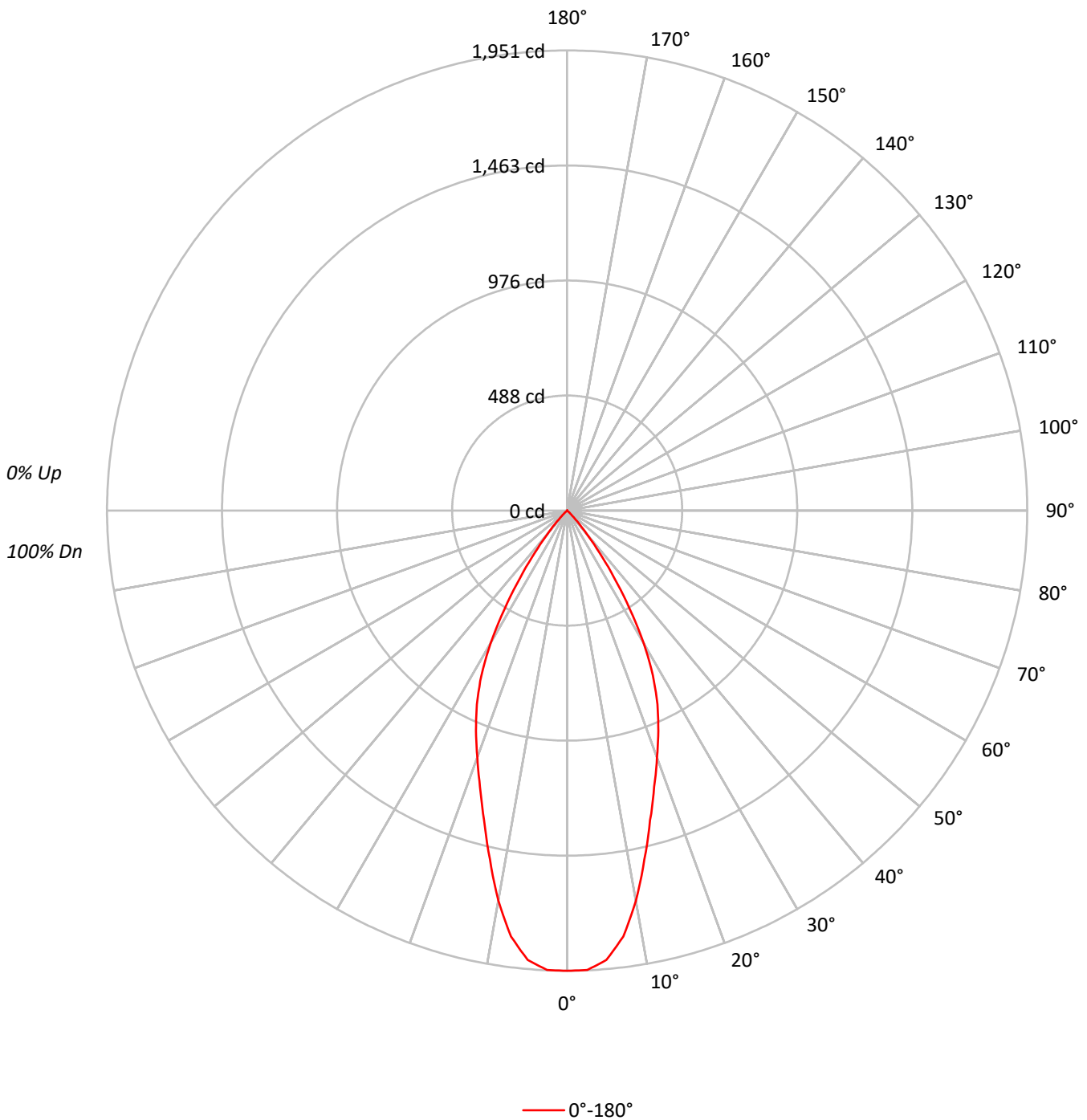
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56
1	64	62	61	60	62	61	60	59	59	58	57	57	56	55	55	54	54	53
2	61	58	56	55	60	57	56	54	56	54	53	54	53	52	52	51	51	50
3	58	55	52	50	57	54	52	50	53	51	49	51	50	48	50	49	48	47
4	56	52	49	47	55	51	48	46	50	48	46	49	47	45	48	46	45	44
5	53	49	46	43	52	48	45	43	47	45	43	46	44	42	45	44	42	41
6	51	46	43	41	50	46	43	41	45	42	40	44	42	40	43	41	40	39
7	48	44	40	38	48	43	40	38	42	40	38	42	39	38	41	39	38	37
8	46	41	38	36	46	41	38	36	40	38	36	40	37	36	39	37	36	35
9	44	39	36	34	44	39	36	34	38	36	34	38	36	34	37	35	34	33
10	42	37	34	32	42	37	34	32	37	34	32	36	34	32	36	34	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60162
5°	59200
10°	52601
15°	43398
20°	36537
25°	30822
30°	23077
35°	13051
40°	5153
45°	1391
50°	269
55°	0
60°	31
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	175.0	14.3	8.0	0°	1951	
10°-20°	381.4	31.2	17.5	5°	1912	175
20°-30°	408.6	33.4	18.7	15°	1359	381
30°-40°	221.4	18.1	10.1	25°	906	409
40°-50°	34.5	2.8	1.6	35°	347	221
50°-60°	0.9	0.1	0.0	45°	32	34
60°-70°	0.2	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	965.0	79.0	44.2	165°	0	0
0°-40°	1186.4	97.1	54.3	175°	0	0
0°-60°	1221.8	100.0	56.0	180°	0	0
0°-90°	1222.0	100.0	56.0			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1222.0	100.0	56.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1951.0
2.5°	1949.4
5°	1912.5
7.5°	1821.3
10°	1679.9
12.5°	1514.3
15°	1359.4
17.5°	1228.0
20°	1113.4
22.5°	1010.5
25°	905.9
27.5°	787.3
30°	648.1
32.5°	494.3
35°	346.7
37.5°	222.0
40°	128.0
42.5°	68.2
45°	31.9
47.5°	17.4
50°	5.6
52.5°	0.5
55°	0.0
57.5°	0.5
60°	0.5
62.5°	0.0
65°	0.0
67.5°	0.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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



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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)