

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: P245641

Luminaire Tested: **LD8B15D010 ER8B15935 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245641
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 ER8B15935 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1084.0 lumens
Efficiency: 49.7%
Efficacy: 75.3 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

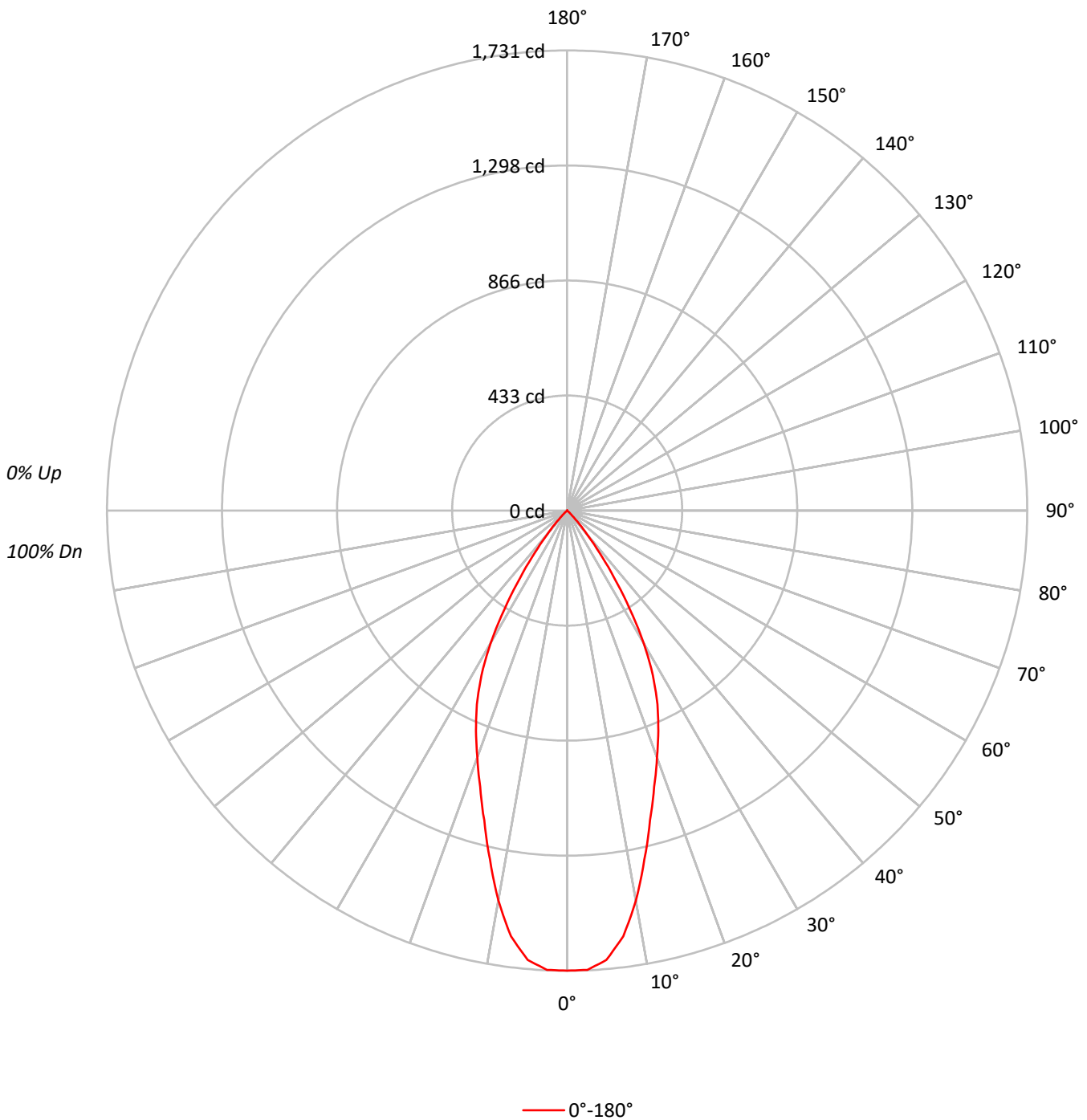
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	59	59	59	59	58	58	58	58	55	55	55		53	53	53		51	51	51	50
1	57	55	54	53	55	54	53	52	52	51	51		50	50	49		49	48	48	47
2	54	52	50	48	53	51	49	48	49	48	47		48	47	46		47	46	45	44
3	52	49	46	45	51	48	46	44	47	45	43		46	44	43		44	43	42	41
4	49	46	43	41	48	45	43	41	44	42	41		43	42	40		42	41	40	39
5	47	43	40	39	46	43	40	38	42	40	38		41	39	38		40	39	37	37
6	45	41	38	36	44	40	38	36	40	37	36		39	37	35		38	37	35	35
7	43	39	36	34	42	38	36	34	38	35	34		37	35	33		37	35	33	33
8	41	37	34	32	40	36	34	32	36	33	32		35	33	32		35	33	32	31
9	39	35	32	30	39	35	32	30	34	32	30		34	32	30		33	31	30	29
10	38	33	30	29	37	33	30	29	32	30	29		32	30	28		32	30	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53368
5°	52514
10°	46658
15°	38497
20°	32408
25°	27342
30°	20470
35°	11579
40°	4573
45°	1234
50°	235
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°	155.2	14.3	7.1	0°	1731	
10°-20°	338.4	31.2	15.5	5°	1696	155
20°-30°	362.4	33.4	16.6	15°	1206	338
30°-40°	196.4	18.1	9.0	25°	804	362
40°-50°	30.6	2.8	1.4	35°	308	196
50°-60°	0.8	0.1	0.0	45°	28	31
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°	856.0	79.0	39.2	165°	0	0
0°-40°	1052.5	97.1	48.2	175°	0	0
0°-60°	1083.8	100.0	49.6	180°	0	0
0°-90°	1084.0	100.0	49.7			
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°	1084.0	100.0	49.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1730.7
2.5°	1729.3
5°	1696.5
7.5°	1615.6
10°	1490.1
12.5°	1343.3
15°	1205.9
17.5°	1089.3
20°	987.6
22.5°	896.4
25°	803.6
27.5°	698.4
30°	574.9
32.5°	438.5
35°	307.6
37.5°	197.0
40°	113.6
42.5°	60.5
45°	28.3
47.5°	15.4
50°	4.9
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)