

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: P246366

Luminaire Tested: **LD8B10D010 ER8B10940 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B10D010 ER8B10940 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 602.0 lumens
Efficiency: 31.9%
Efficacy: 59.0 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

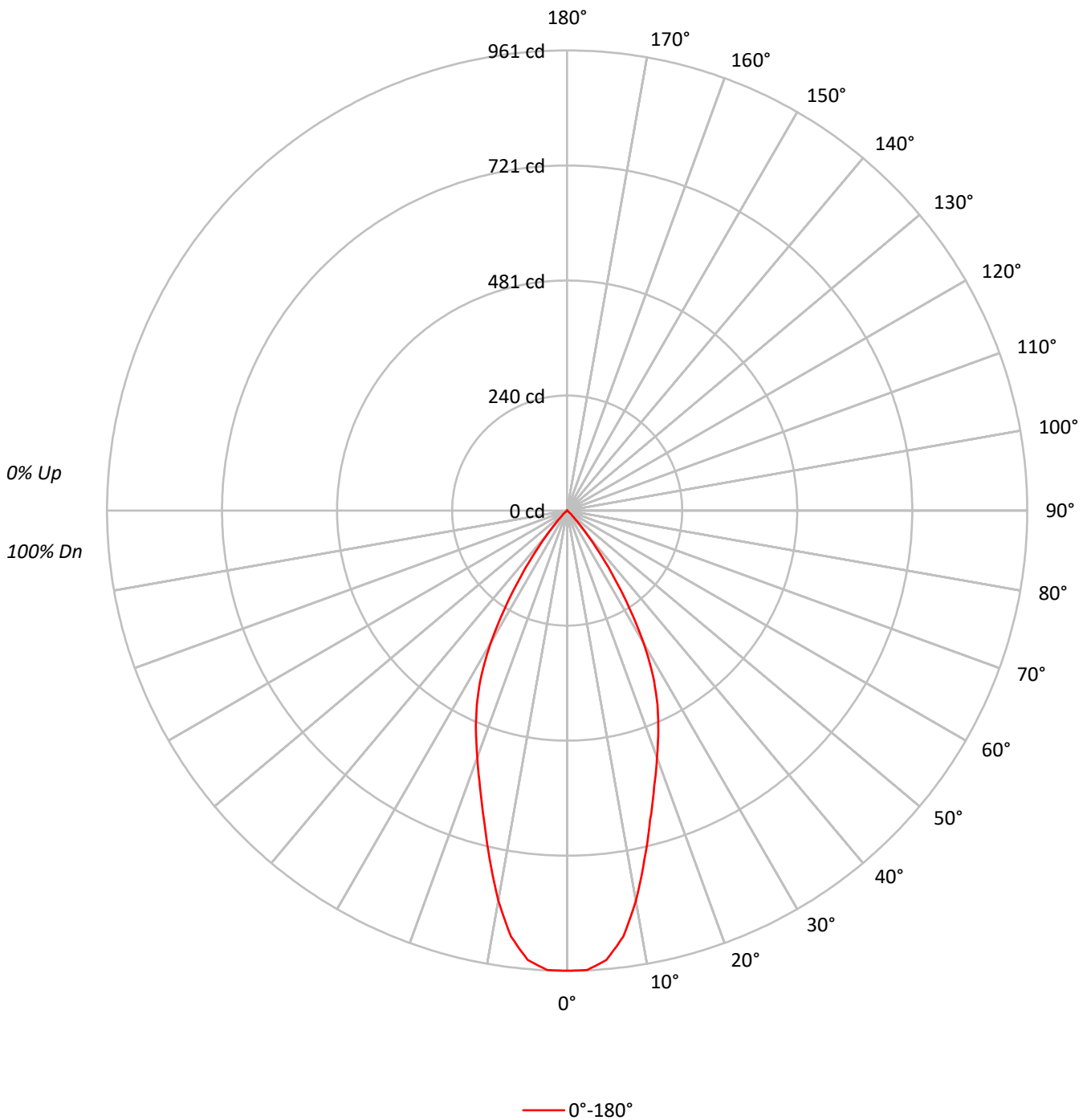
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246366

CATALOG NUMBER: LD8B10D010 ER8B10940 8LBN0B

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	38	38	38	38	37	37	37	37	35	35	35		34	34	34		33	33	33	32
1	36	36	35	34	36	35	34	34	34	33	33		32	32	32		31	31	31	30
2	35	33	32	31	34	33	32	31	32	31	30		31	30	29		30	29	29	28
3	33	31	30	29	33	31	29	28	30	29	28		29	28	28		29	28	27	27
4	32	29	28	27	31	29	28	26	28	27	26		28	27	26		27	26	25	25
5	30	28	26	25	30	27	26	25	27	25	24		26	25	24		26	25	24	24
6	29	26	24	23	28	26	24	23	25	24	23		25	24	23		25	24	23	22
7	28	25	23	22	27	25	23	22	24	23	22		24	22	22		23	22	21	21
8	26	24	22	21	26	23	22	20	23	21	20		23	21	20		22	21	20	20
9	25	22	21	19	25	22	21	19	22	20	19		22	20	19		21	20	19	19
10	24	21	20	18	24	21	19	18	21	19	18		21	19	18		20	19	18	18

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29631
5°	29162
10°	25908
15°	21376
20°	17999
25°	15182
30°	11373
35°	6430
40°	2540
45°	680
50°	139
55°	0
60°	19
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°	86.2	14.3	4.6	0°	961	
10°-20°	187.9	31.2	10.0	5°	942	86
20°-30°	201.3	33.4	10.7	15°	670	188
30°-40°	109.1	18.1	5.8	25°	446	201
40°-50°	17.0	2.8	0.9	35°	171	109
50°-60°	0.5	0.1	0.0	45°	16	17
60°-70°	0.1	0.0	0.0	55°	0	0
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°	475.4	79.0	25.2	165°	0	0
0°-40°	584.5	97.1	31.0	175°	0	0
0°-60°	601.9	100.0	31.9	180°	0	0
0°-90°	602.0	100.0	31.9			
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°	602.0	100.0	31.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	960.9
2.5°	960.3
5°	942.1
7.5°	897.2
10°	827.4
12.5°	746.1
15°	669.6
17.5°	604.9
20°	548.5
22.5°	497.8
25°	446.2
27.5°	387.9
30°	319.4
32.5°	243.5
35°	170.8
37.5°	109.4
40°	63.1
42.5°	33.8
45°	15.6
47.5°	8.3
50°	2.9
52.5°	0.3
55°	0.0
57.5°	0.3
60°	0.3
62.5°	0.0
65°	0.0
67.5°	0.3
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)