

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: P245598

Luminaire Tested: **LSR8B10D010 EC8B10827 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245598
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: LSR8B10D010 EC8B10827 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 880.0 lumens
Efficiency: 40.3%
Efficacy: 86.3 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

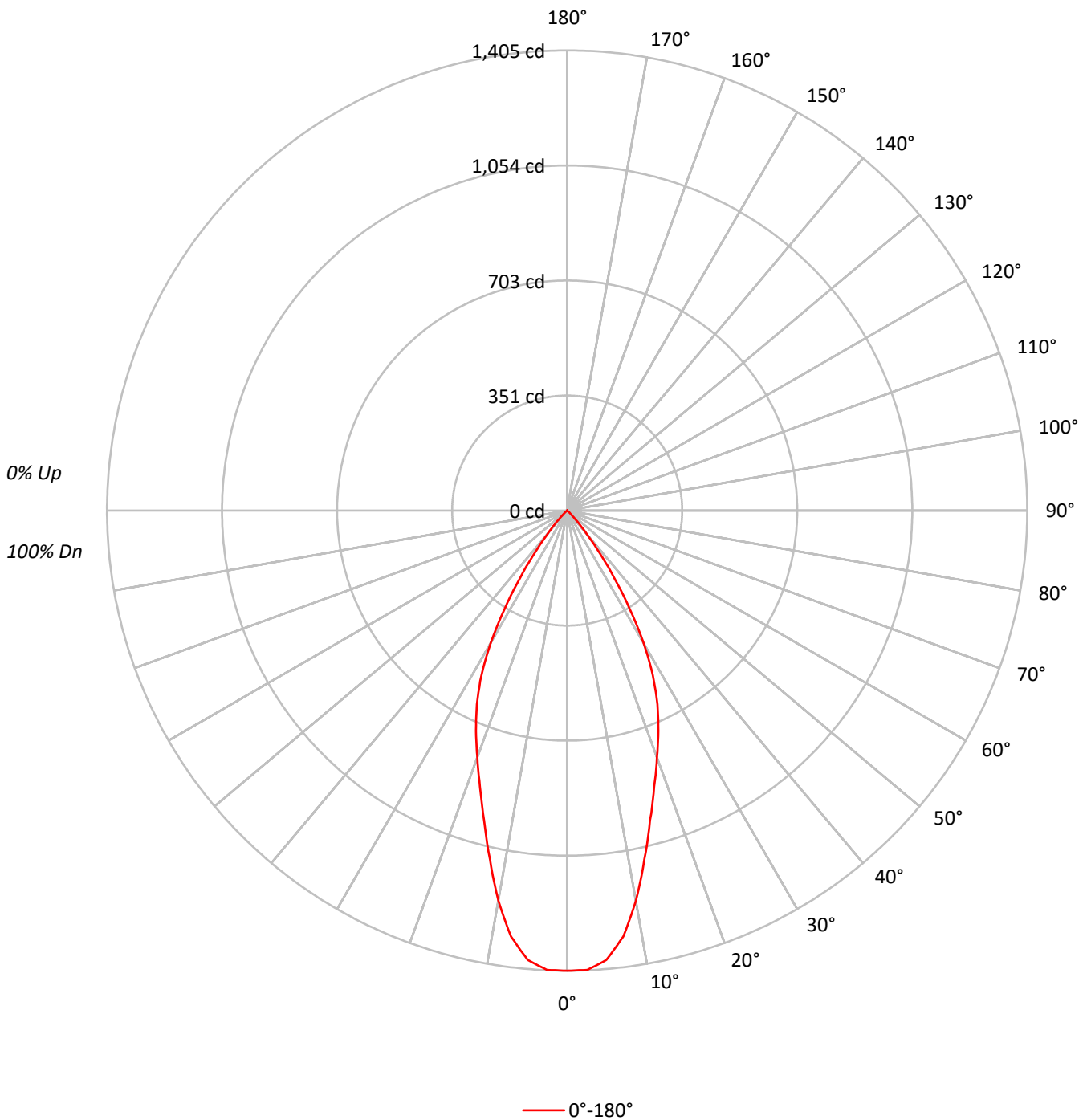
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	48	48	48	48	47	47	47	47	45	45	45		43	43	43		41	41	41	40
1	46	45	44	43	45	44	43	42	42	42	41		41	40	40		40	39	39	38
2	44	42	41	39	43	41	40	39	40	39	38		39	38	37		38	37	36	36
3	42	39	38	36	41	39	37	36	38	36	35		37	36	35		36	35	34	34
4	40	37	35	34	39	37	35	33	36	34	33		35	34	33		34	33	32	32
5	38	35	33	31	38	35	33	31	34	32	31		33	32	31		33	31	30	30
6	36	33	31	29	36	33	31	29	32	30	29		32	30	29		31	30	29	28
7	35	31	29	28	34	31	29	27	31	29	27		30	28	27		30	28	27	27
8	33	30	27	26	33	29	27	26	29	27	26		29	27	26		28	27	26	25
9	32	28	26	25	31	28	26	24	28	26	24		27	26	24		27	25	24	24
10	30	27	25	23	30	27	25	23	26	24	23		26	24	23		26	24	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43325
5°	42630
10°	37878
15°	31254
20°	26311
25°	22197
30°	16618
35°	9400
40°	3711
45°	999
50°	192
55°	0
60°	25
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°	126.0	14.3	5.8	0°	1405	
10°-20°	274.7	31.2	12.6	5°	1377	126
20°-30°	294.2	33.4	13.5	15°	979	275
30°-40°	159.4	18.1	7.3	25°	652	294
40°-50°	24.8	2.8	1.1	35°	250	159
50°-60°	0.7	0.1	0.0	45°	23	25
60°-70°	0.1	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°	695.0	79.0	31.8	165°	0	0
0°-40°	854.4	97.1	39.1	175°	0	0
0°-60°	879.9	100.0	40.3	180°	0	0
0°-90°	880.0	100.0	40.3			
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°	880.0	100.0	40.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1405.0
2.5°	1403.8
5°	1377.2
7.5°	1311.6
10°	1209.7
12.5°	1090.5
15°	979.0
17.5°	884.3
20°	801.8
22.5°	727.7
25°	652.4
27.5°	567.0
30°	466.7
32.5°	356.0
35°	249.7
37.5°	159.9
40°	92.2
42.5°	49.1
45°	22.9
47.5°	12.5
50°	4.0
52.5°	0.4
55°	0.0
57.5°	0.4
60°	0.4
62.5°	0.0
65°	0.0
67.5°	0.4
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)