

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: P245652

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245652
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 EC8B10950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 865.0 lumens
Efficiency: 39.6%
Efficacy: 84.8 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

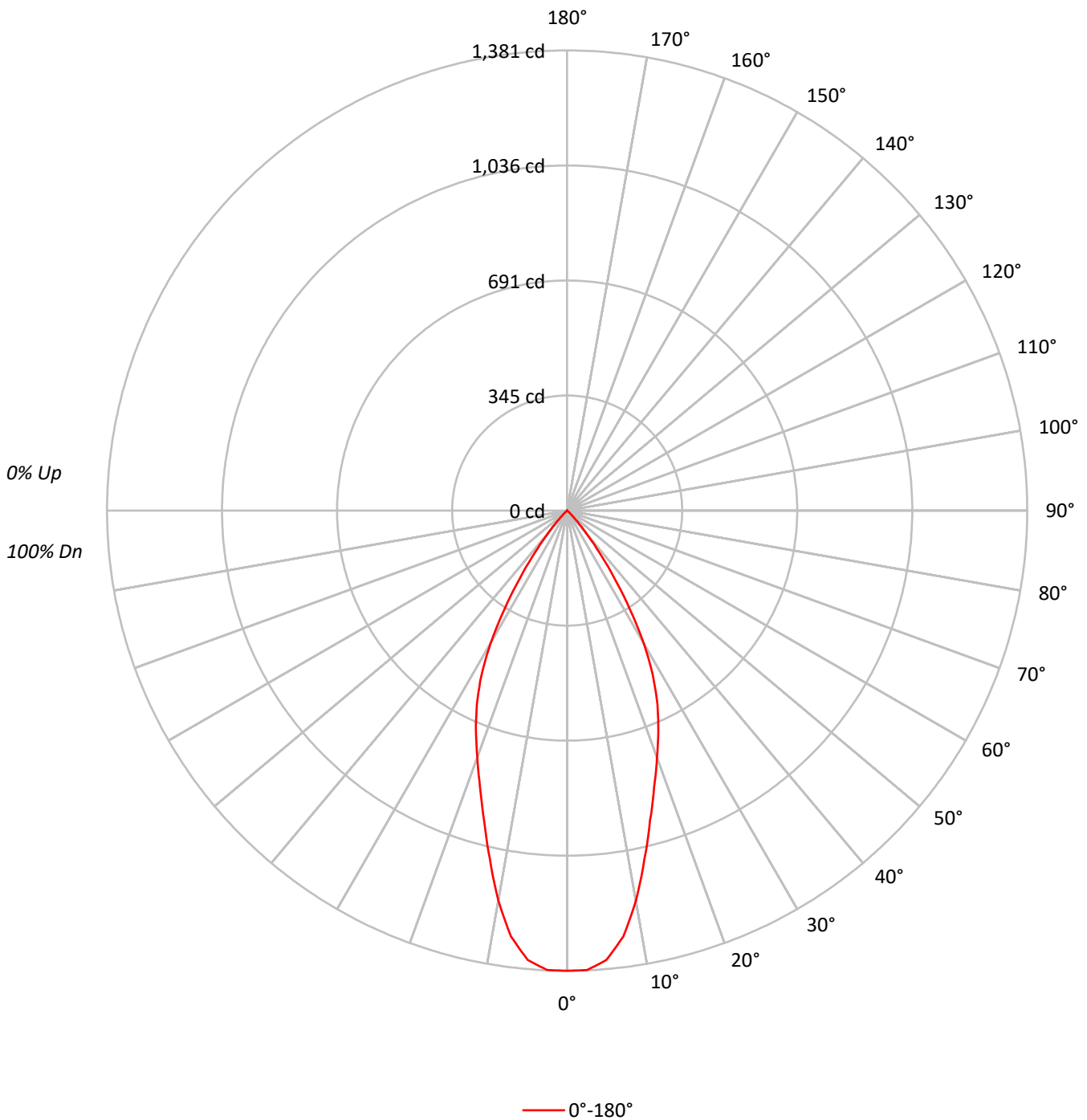
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	47	47	47	47	46	46	46	46	44	44	44	42	42	42	40	40	40	40
1	45	44	43	42	44	43	42	42	42	41	40	40	40	39	39	38	38	37
2	43	41	40	39	42	41	39	38	39	38	37	38	37	37	37	36	36	35
3	41	39	37	36	40	38	37	35	37	36	35	36	35	34	35	34	34	33
4	39	37	35	33	39	36	34	33	35	34	32	34	33	32	34	33	32	31
5	38	34	32	31	37	34	32	31	33	32	30	33	31	30	32	31	30	29
6	36	33	30	29	35	32	30	29	32	30	28	31	30	28	31	29	28	28
7	34	31	29	27	34	31	28	27	30	28	27	30	28	27	29	28	27	26
8	33	29	27	26	32	29	27	25	29	27	25	28	26	25	28	26	25	25
9	31	28	26	24	31	28	25	24	27	25	24	27	25	24	27	25	24	23
10	30	26	24	23	30	26	24	23	26	24	23	26	24	23	25	24	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42585
5°	41903
10°	37233
15°	30721
20°	25862
25°	21820
30°	16333
35°	9238
40°	3647
45°	981
50°	187
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°	123.9	14.3	5.7	0°	1381	
10°-20°	270.0	31.2	12.4	5°	1354	124
20°-30°	289.2	33.4	13.2	15°	962	270
30°-40°	156.7	18.1	7.2	25°	641	289
40°-50°	24.4	2.8	1.1	35°	245	157
50°-60°	0.6	0.1	0.0	45°	22	24
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°	683.1	79.0	31.3	165°	0	0
0°-40°	839.8	97.1	38.5	175°	0	0
0°-60°	864.8	100.0	39.6	180°	0	0
0°-90°	865.0	100.0	39.6			
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°	865.0	100.0	39.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1381.0
2.5°	1379.9
5°	1353.7
7.5°	1289.2
10°	1189.1
12.5°	1071.9
15°	962.3
17.5°	869.3
20°	788.1
22.5°	715.3
25°	641.3
27.5°	557.3
30°	458.7
32.5°	349.9
35°	245.4
37.5°	157.2
40°	90.6
42.5°	48.3
45°	22.5
47.5°	12.3
50°	3.9
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)