

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: P245658

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245658
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 EC8B10927 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 734.6 lumens
Efficiency: 33.7%
Efficacy: 72.0 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

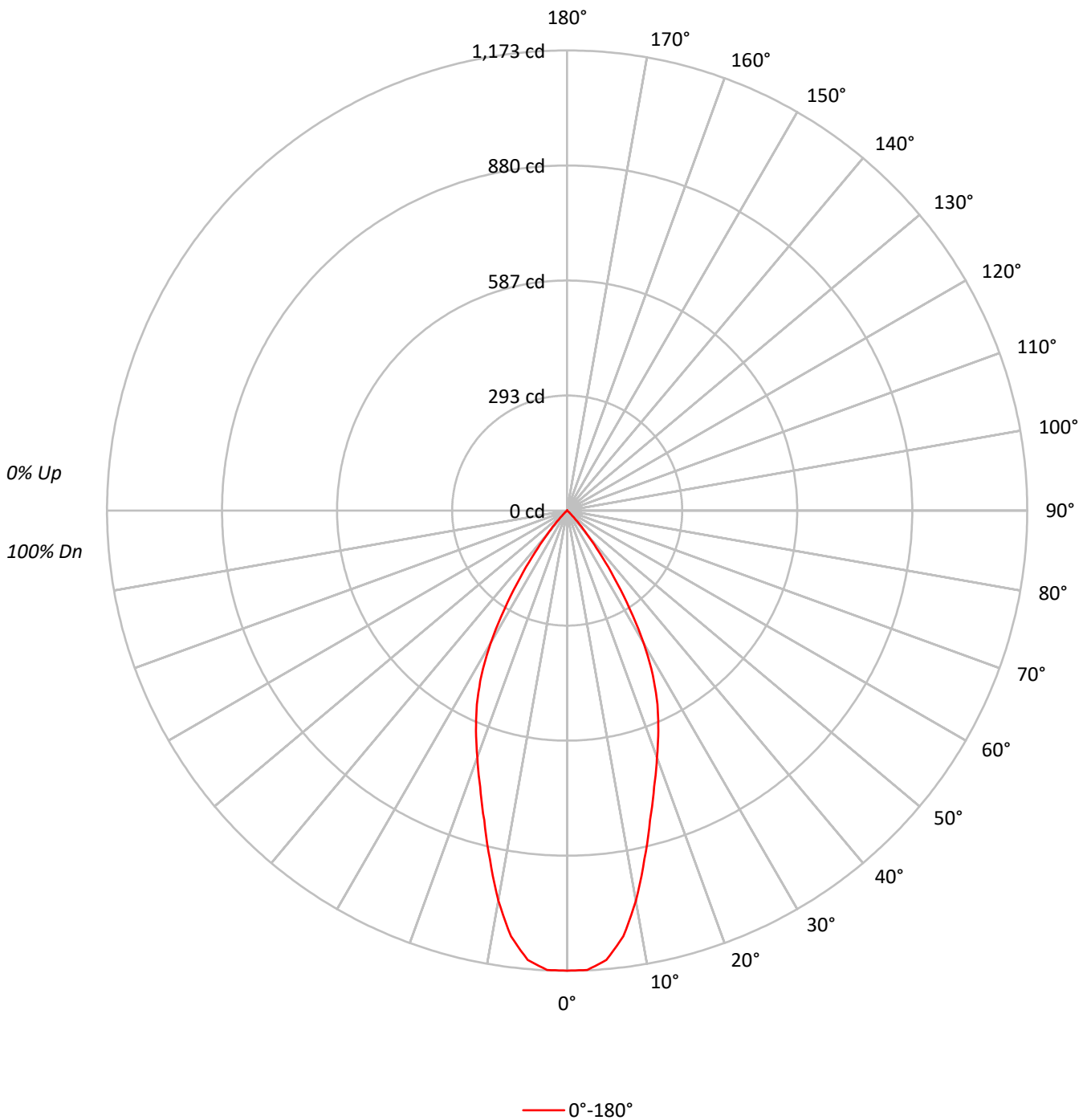
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	40	40	40	40	39	39	39	39	37	37	37	36	36	36	34	34	34	34
1	38	37	37	36	38	37	36	35	35	35	34	34	34	33	33	33	32	32
2	37	35	34	33	36	35	33	32	33	33	32	32	32	31	32	31	30	30
3	35	33	31	30	34	33	31	30	32	30	29	31	30	29	30	29	29	28
4	33	31	29	28	33	31	29	28	30	29	28	29	28	27	29	28	27	26
5	32	29	27	26	31	29	27	26	28	27	26	28	27	26	27	26	25	25
6	30	28	26	24	30	27	26	24	27	25	24	26	25	24	26	25	24	23
7	29	26	24	23	29	26	24	23	26	24	23	25	24	23	25	24	23	22
8	28	25	23	22	27	25	23	22	24	23	22	24	22	21	24	22	21	21
9	27	24	22	20	26	23	22	20	23	21	20	23	21	20	23	21	20	20
10	25	22	21	19	25	22	21	19	22	20	19	22	20	19	22	20	19	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36168
5°	35591
10°	31622
15°	26088
20°	21963
25°	18530
30°	13872
35°	7849
40°	3100
45°	833
50°	163
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°	105.2	14.3	4.8	0°	1173	
10°-20°	229.3	31.2	10.5	5°	1150	105
20°-30°	245.6	33.4	11.3	15°	817	229
30°-40°	133.1	18.1	6.1	25°	545	246
40°-50°	20.7	2.8	1.0	35°	208	133
50°-60°	0.5	0.1	0.0	45°	19	21
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°	580.1	79.0	26.6	165°	0	0
0°-40°	713.2	97.1	32.7	175°	0	0
0°-60°	734.5	100.0	33.6	180°	0	0
0°-90°	734.6	100.0	33.7			
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°	734.6	100.0	33.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1172.9
2.5°	1171.9
5°	1149.8
7.5°	1094.9
10°	1009.9
12.5°	910.4
15°	817.2
17.5°	738.2
20°	669.3
22.5°	607.5
25°	544.6
27.5°	473.3
30°	389.6
32.5°	297.1
35°	208.5
37.5°	133.5
40°	77.0
42.5°	41.1
45°	19.1
47.5°	10.5
50°	3.4
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)