

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: P245664

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245664
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 EC8B109730 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 691.0 lumens
Efficiency: 31.7%
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

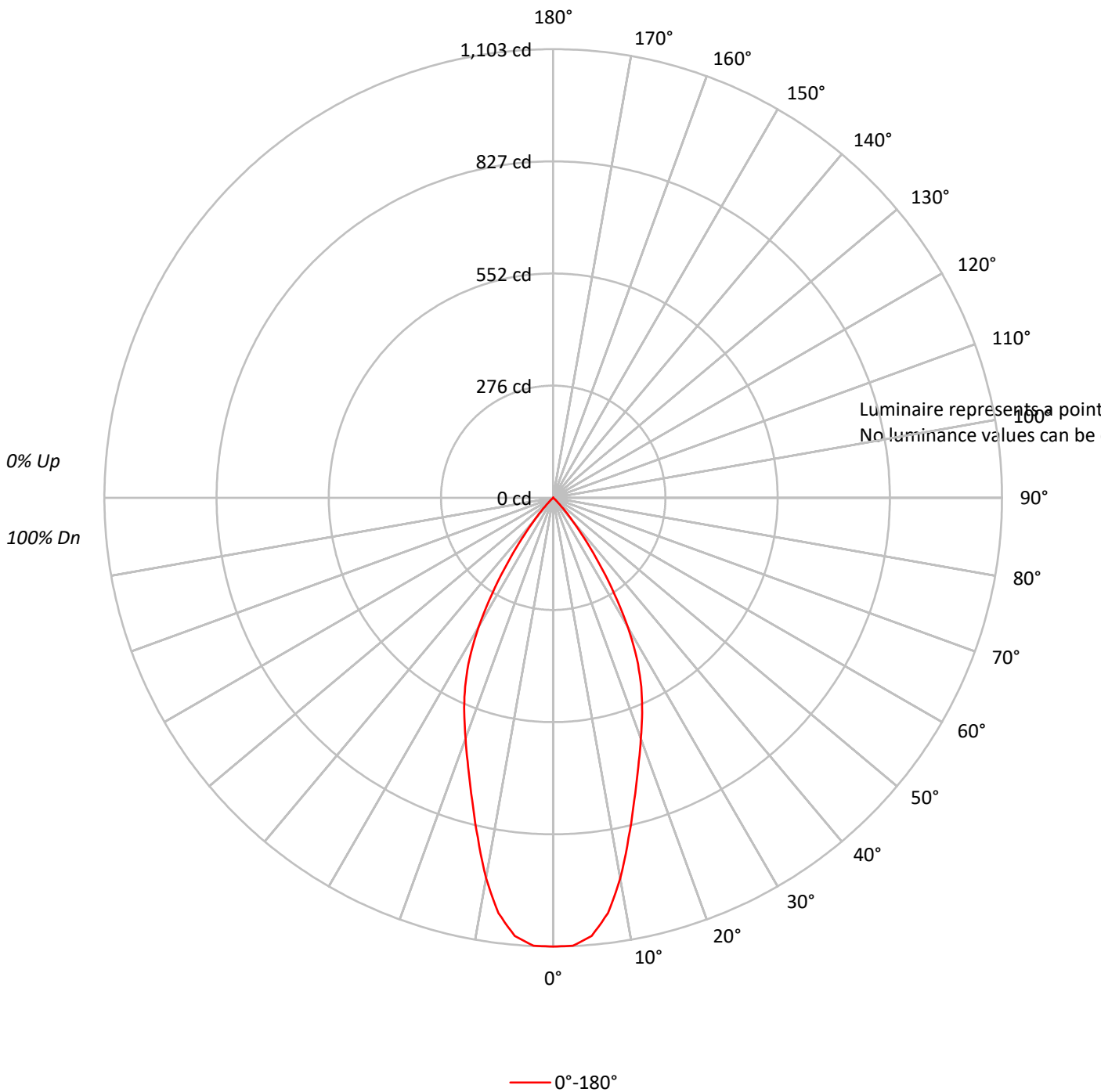
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	99.0	14.3	4.5	0°	1103	
10°-20°	215.7	31.2	9.9	5°	1081	99
20°-30°	231.0	33.4	10.6	15°	769	216
30°-40°	125.2	18.1	5.7	25°	512	231
40°-50°	19.5	2.8	0.9	35°	196	125
50°-60°	0.5	0.1	0.0	45°	18	19
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°	545.7	79.0	25.0	165°	0	0
0°-40°	670.9	97.1	30.7	175°	0	0
0°-60°	690.9	100.0	31.6	180°	0	0
0°-90°	691.0	100.0	31.7			
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°	691.0	100.0	31.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1103.2
2.5°	1102.3
5°	1081.4
7.5°	1029.9
10°	949.9
12.5°	856.3
15°	768.7
17.5°	694.4
20°	629.6
22.5°	571.4
25°	512.3
27.5°	445.2
30°	366.5
32.5°	279.5
35°	196.1
37.5°	125.6
40°	72.4
42.5°	38.6
45°	18.0
47.5°	9.8
50°	3.1
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)