

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: P245659

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245659
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: LSR8B15D010 EC8B159727 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: 885.0 lumens
Efficiency: 40.5%
Efficacy: 61.5 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

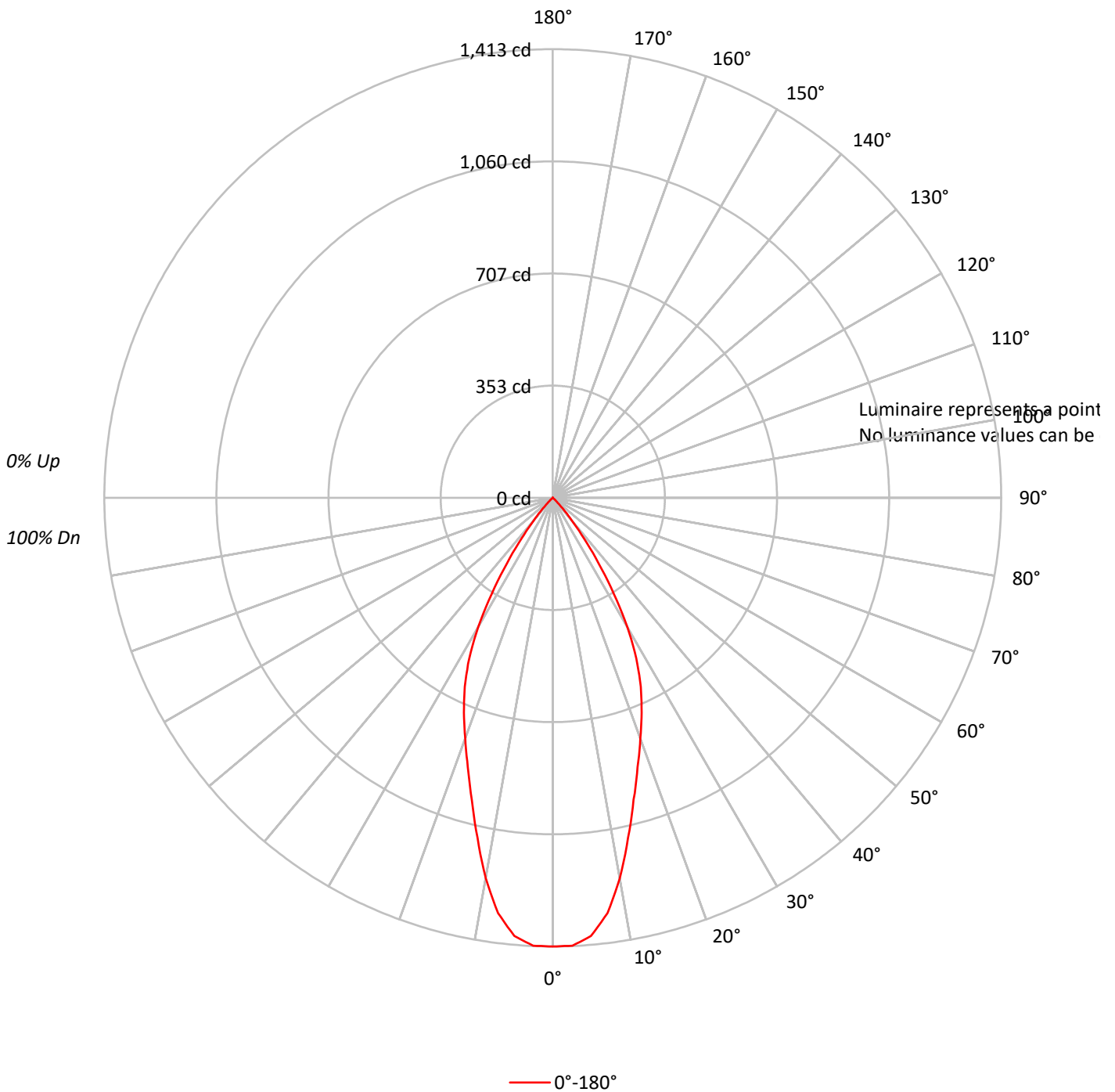
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	126.7	14.3	5.8	0°	1413	
10°-20°	276.2	31.2	12.7	5°	1385	127
20°-30°	295.9	33.4	13.6	15°	984	276
30°-40°	160.3	18.1	7.3	25°	656	296
40°-50°	25.0	2.8	1.1	35°	251	160
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°	698.9	79.0	32.0	165°	0	0
0°-40°	859.2	97.1	39.4	175°	0	0
0°-60°	884.9	100.0	40.5	180°	0	0
0°-90°	885.0	100.0	40.5			
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°	885.0	100.0	40.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1413.0
2.5°	1411.8
5°	1385.0
7.5°	1319.0
10°	1216.6
12.5°	1096.7
15°	984.5
17.5°	889.4
20°	806.3
22.5°	731.8
25°	656.1
27.5°	570.2
30°	469.4
32.5°	358.0
35°	251.1
37.5°	160.8
40°	92.7
42.5°	49.4
45°	23.1
47.5°	12.6
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)