

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: P246379

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15927 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 717.7 lumens
Efficiency: 38.0%
Efficacy: 49.8 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

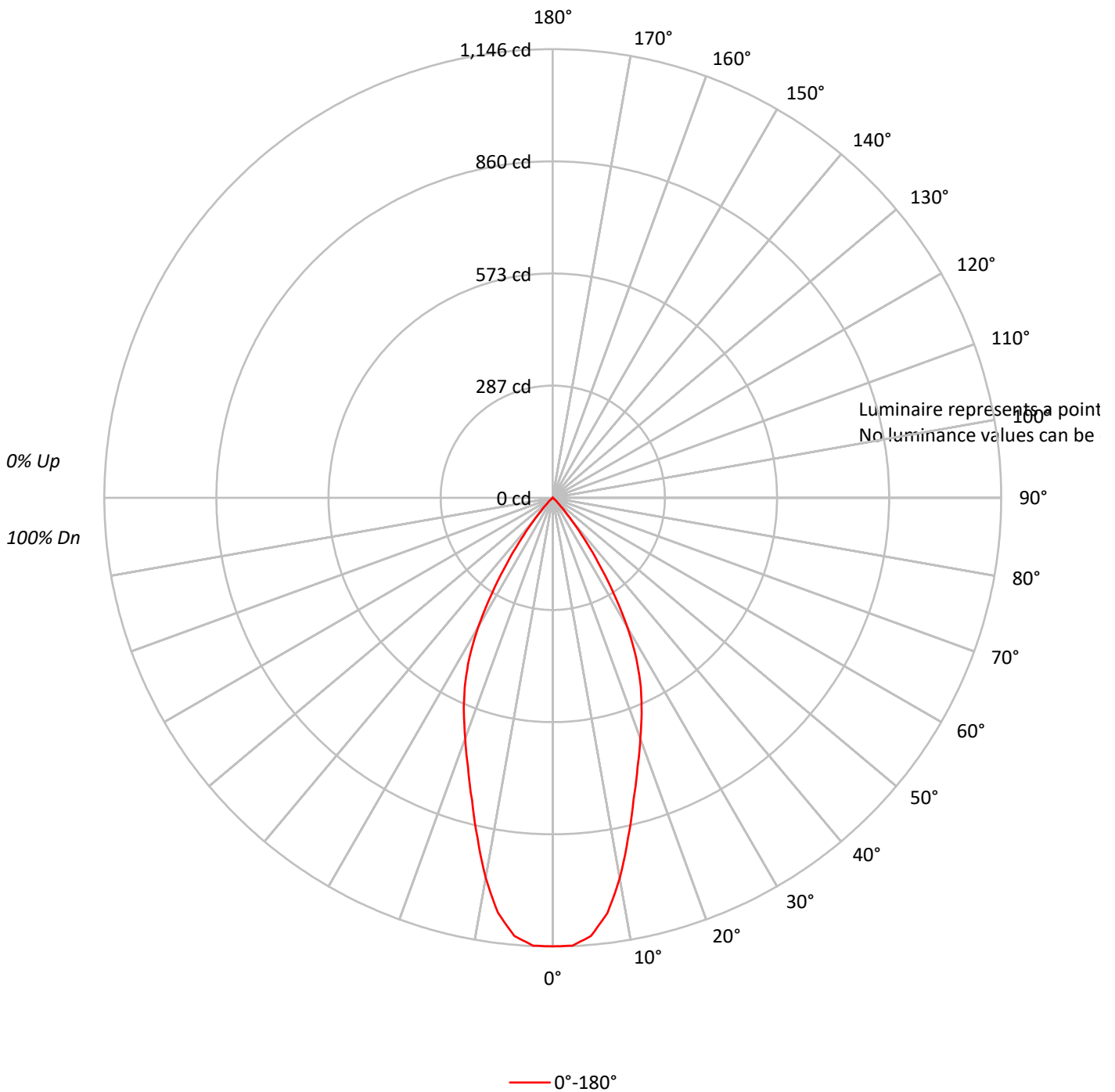
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	45	45	45	45	44	44	44	44	42	42	42	40	40	40	39	39	39	38
1	43	42	41	41	42	42	41	40	40	39	39	39	38	38	37	37	37	36
2	41	40	38	37	41	39	38	37	38	37	36	37	36	35	36	35	34	34
3	40	37	36	34	39	37	35	34	36	34	33	35	34	33	34	33	32	32
4	38	35	33	32	37	35	33	31	34	32	31	33	32	31	32	31	30	30
5	36	33	31	30	35	33	31	29	32	30	29	31	30	29	31	30	29	28
6	34	31	29	28	34	31	29	28	30	29	27	30	28	27	29	28	27	26
7	33	30	27	26	32	29	27	26	29	27	26	28	27	26	28	27	26	25
8	31	28	26	24	31	28	26	24	27	26	24	27	25	24	27	25	24	24
9	30	27	25	23	30	26	24	23	26	24	23	26	24	23	25	24	23	22
10	29	25	23	22	28	25	23	22	25	23	22	25	23	22	24	23	22	21

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	102.8	14.3	5.4	0°	1146	
10°-20°	224.0	31.2	11.9	5°	1123	103
20°-30°	240.0	33.4	12.7	15°	798	224
30°-40°	130.1	18.1	6.9	25°	532	240
40°-50°	20.2	2.8	1.1	35°	204	130
50°-60°	0.5	0.1	0.0	45°	19	20
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°	566.8	79.0	30.0	165°	0	0
0°-40°	696.9	97.1	36.9	175°	0	0
0°-60°	717.6	100.0	38.0	180°	0	0
0°-90°	717.7	100.0	38.0			
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°	717.7	100.0	38.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1145.6
2.5°	1144.9
5°	1123.2
7.5°	1069.6
10°	986.4
12.5°	889.5
15°	798.3
17.5°	721.2
20°	654.0
22.5°	593.6
25°	532.0
27.5°	462.5
30°	380.8
32.5°	290.4
35°	203.7
37.5°	130.4
40°	75.3
42.5°	40.3
45°	18.6
47.5°	9.9
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)