

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: P246385

Luminaire Tested: **LSR8B15D010 EC8B15930 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246385
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 EC8B15930 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 756.7 lumens
Efficiency: 40.1%
Efficacy: 52.5 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

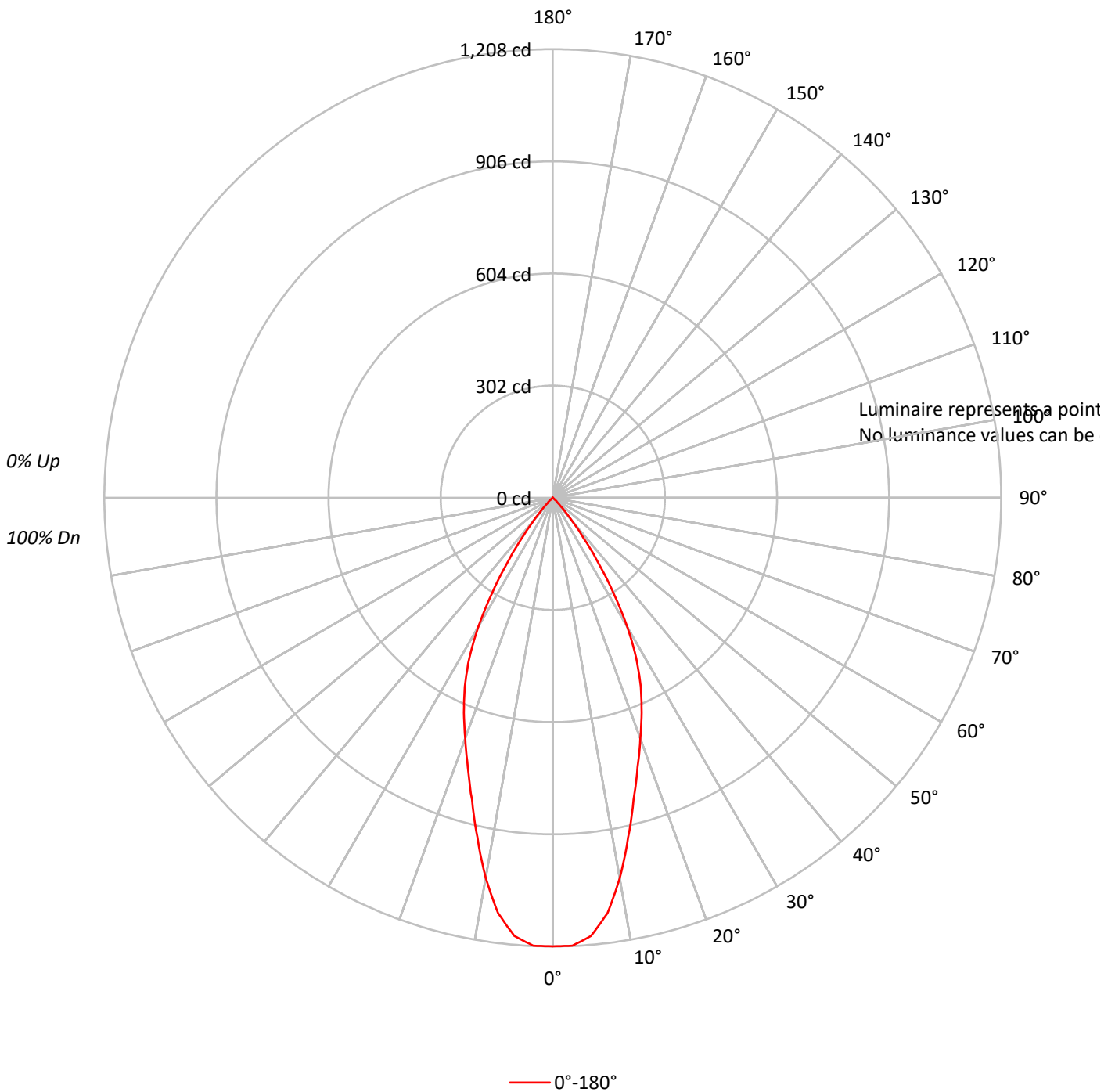
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246385

CATALOG NUMBER: LSR8B15D010 EC8B15930 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P246385

CATALOG NUMBER: LSR8B15D010 EC8B15930 8LBN0B

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P246385

CATALOG NUMBER: LSR8B15D010 EC8B15930 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	108.4	14.3	5.7	0°	1208	
10°-20°	236.2	31.2	12.5	5°	1184	108
20°-30°	253.0	33.4	13.4	15°	842	236
30°-40°	137.1	18.1	7.3	25°	561	253
40°-50°	21.3	2.8	1.1	35°	215	137
50°-60°	0.6	0.1	0.0	45°	20	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°	597.5	79.0	31.7	165°	0	0
0°-40°	734.6	97.1	38.9	175°	0	0
0°-60°	756.5	100.0	40.1	180°	0	0
0°-90°	756.7	100.0	40.1			
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°	756.7	100.0	40.1			



TEST NUMBER: P246385

CATALOG NUMBER: LSR8B15D010 EC8B15930 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1207.8
2.5°	1207.0
5°	1184.1
7.5°	1127.7
10°	1040.0
12.5°	937.8
15°	841.6
17.5°	760.4
20°	689.4
22.5°	625.7
25°	560.8
27.5°	487.5
30°	401.4
32.5°	306.0
35°	214.8
37.5°	137.4
40°	79.3
42.5°	42.5
45°	19.6
47.5°	10.4
50°	3.6
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



TEST NUMBER: P246385

CATALOG NUMBER: LSR8B15D010 EC8B15930 8LBN0B

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)