

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: P246380

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246380
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: LSR8B20D010 EC8B209727 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: 906.0 lumens
Efficiency: 48.0%
Efficacy: 42.5 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

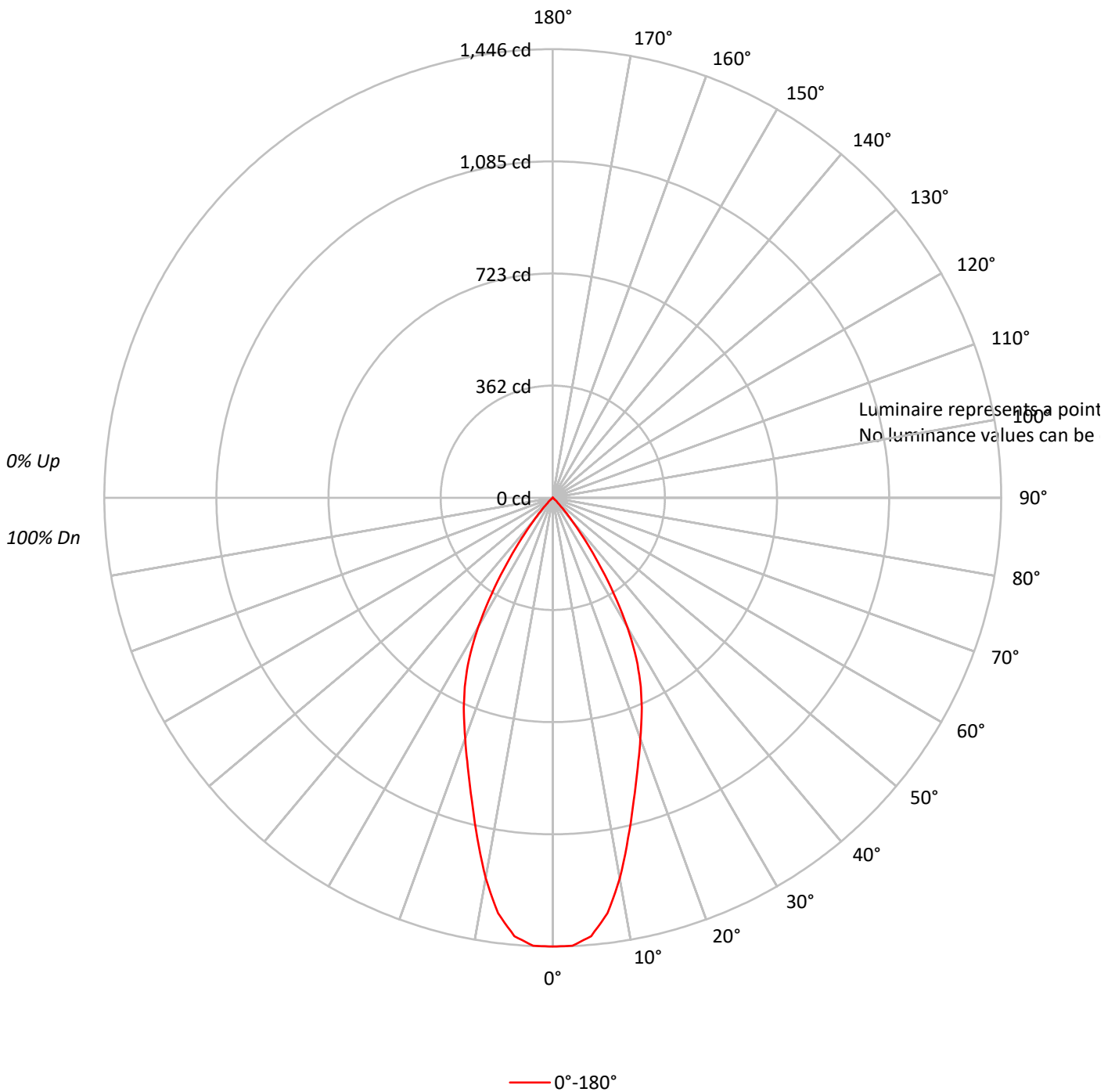
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246380

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P246380

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBN0B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	57	57	57	57	56	56	56	56	53	53	53	51	51	51	49	49	49	48	48	48
1	55	53	52	51	54	52	51	51	51	50	49	49	48	48	47	47	46	45	45	45
2	52	50	48	47	51	49	48	46	48	46	45	46	45	44	45	44	43	43	43	43
3	50	47	45	43	49	46	44	43	45	43	42	44	43	41	43	42	41	40	40	40
4	48	44	42	40	47	44	41	40	43	41	39	42	40	39	41	40	38	38	38	38
5	45	42	39	37	45	41	39	37	40	38	37	40	38	36	39	37	36	35	35	35
6	43	39	37	35	43	39	37	35	38	36	35	38	36	34	37	35	34	33	33	33
7	41	37	35	33	41	37	34	33	36	34	33	36	34	32	35	34	32	32	32	32
8	40	35	33	31	39	35	33	31	35	32	31	34	32	31	34	32	30	30	30	30
9	38	34	31	29	37	33	31	29	33	31	29	33	30	29	32	30	29	28	28	28
10	36	32	29	28	36	32	29	28	31	29	28	31	29	27	31	29	27	27	27	27

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P246380

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	129.7	14.3	6.9	0°	1446	
10°-20°	282.8	31.2	15.0	5°	1418	130
20°-30°	302.9	33.4	16.1	15°	1008	283
30°-40°	164.2	18.1	8.7	25°	672	303
40°-50°	25.5	2.8	1.4	35°	257	164
50°-60°	0.7	0.1	0.0	45°	24	26
60°-70°	0.2	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°	715.4	79.0	37.9	165°	0	0
0°-40°	879.6	97.1	46.6	175°	0	0
0°-60°	905.9	100.0	48.0	180°	0	0
0°-90°	906.0	100.0	48.0			
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°	906.0	100.0	48.0			



TEST NUMBER: P246380

CATALOG NUMBER: LSR8B20D010 EC8B209727 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1446.1
2.5°	1445.2
5°	1417.9
7.5°	1350.2
10°	1245.2
12.5°	1122.8
15°	1007.7
17.5°	910.4
20°	825.5
22.5°	749.2
25°	671.5
27.5°	583.7
30°	480.6
32.5°	366.5
35°	257.1
37.5°	164.6
40°	95.0
42.5°	50.8
45°	23.5
47.5°	12.5
50°	4.3
52.5°	0.5
55°	0.0
57.5°	0.5
60°	0.5
62.5°	0.0
65°	0.0
67.5°	0.5
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: P246380

CATALOG NUMBER: LSR8B20D010 EC8B209727 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)