

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: P246320

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246320
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 EC8B20827 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1221.0 lumens
Efficiency: 64.7%
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

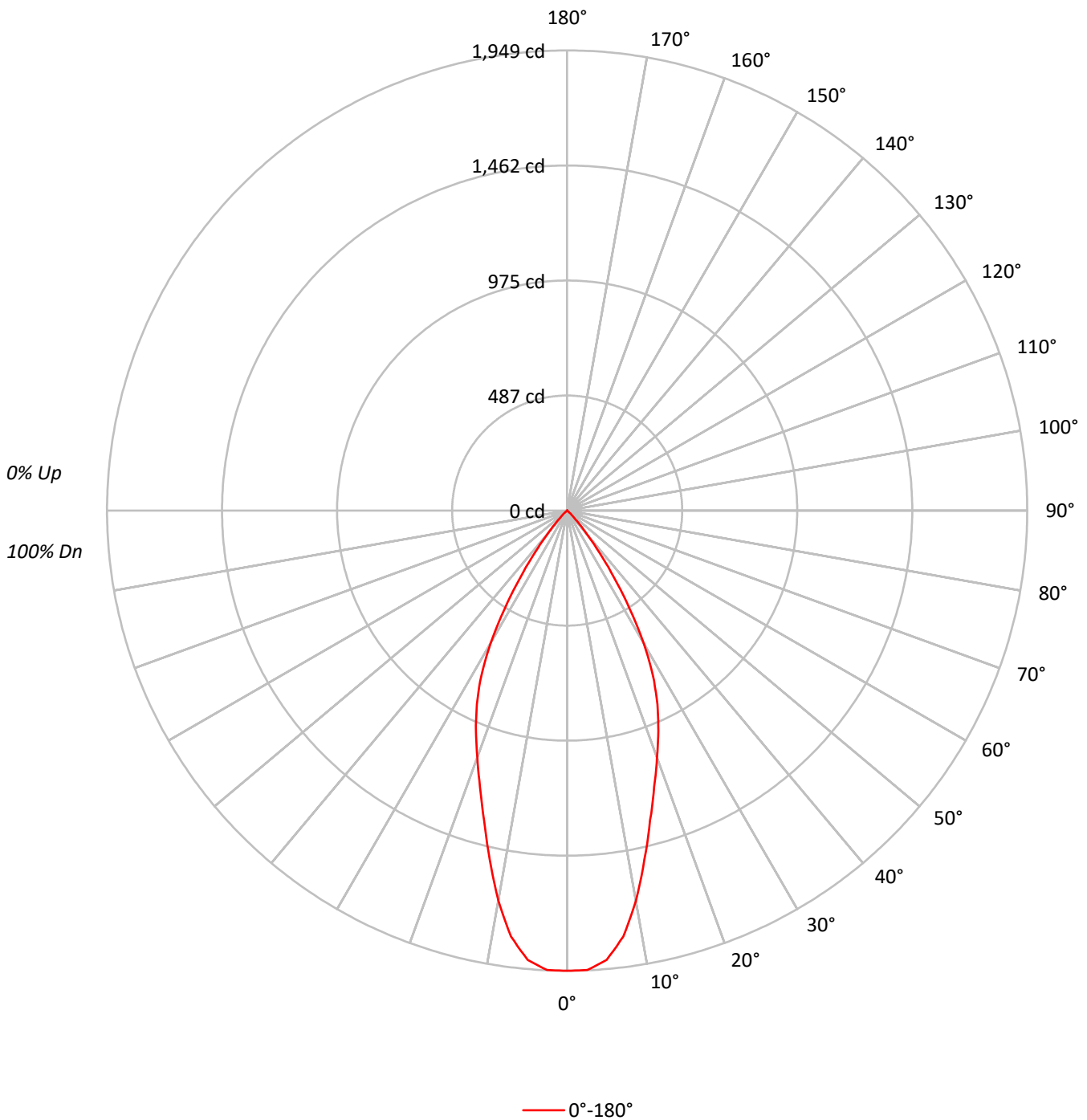
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	74	72	71	69	72	71	69	68	68	67	66		66	65	64		63	63	62	61
2	70	68	65	63	69	66	64	62	64	63	61		62	61	60		61	59	58	57
3	67	63	60	58	66	62	60	58	61	59	57		59	57	56		58	56	55	54
4	64	60	56	54	63	59	56	54	58	55	53		56	54	52		55	53	52	51
5	61	56	53	50	60	56	52	50	55	52	50		53	51	49		53	50	49	48
6	58	53	50	47	58	53	49	47	52	49	47		51	48	46		50	48	46	45
7	56	50	47	44	55	50	46	44	49	46	44		48	46	44		48	45	43	43
8	53	48	44	42	53	47	44	42	47	44	41		46	43	41		45	43	41	40
9	51	45	42	39	50	45	42	39	44	41	39		44	41	39		43	41	39	38
10	49	43	40	37	48	43	40	37	42	39	37		42	39	37		41	39	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60097
5°	59147
10°	52545
15°	43356
20°	36507
25°	30792
30°	23062
35°	13044
40°	5153
45°	1378
50°	278
55°	0
60°	37
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	174.8	14.3	9.3	0°	1949	
10°-20°	381.1	31.2	20.2	5°	1911	175
20°-30°	408.2	33.4	21.6	15°	1358	381
30°-40°	221.2	18.1	11.7	25°	905	408
40°-50°	34.4	2.8	1.8	35°	346	221
50°-60°	1.0	0.1	0.1	45°	32	34
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°	964.2	79.0	51.1	165°	0	0
0°-40°	1185.4	97.1	62.8	175°	0	0
0°-60°	1220.8	100.0	64.7	180°	0	0
0°-90°	1221.0	100.0	64.7			
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°	1221.0	100.0	64.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1948.9
2.5°	1947.6
5°	1910.8
7.5°	1819.7
10°	1678.1
12.5°	1513.2
15°	1358.1
17.5°	1226.9
20°	1112.5
22.5°	1009.7
25°	905.0
27.5°	786.7
30°	647.7
32.5°	493.9
35°	346.5
37.5°	221.8
40°	128.0
42.5°	68.5
45°	31.6
47.5°	16.8
50°	5.8
52.5°	0.6
55°	0.0
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.6
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)