

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 EC8B20927 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 EC8B20927 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: 1019.3 lumens
Efficiency: 54.0%
Efficacy: 47.9 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

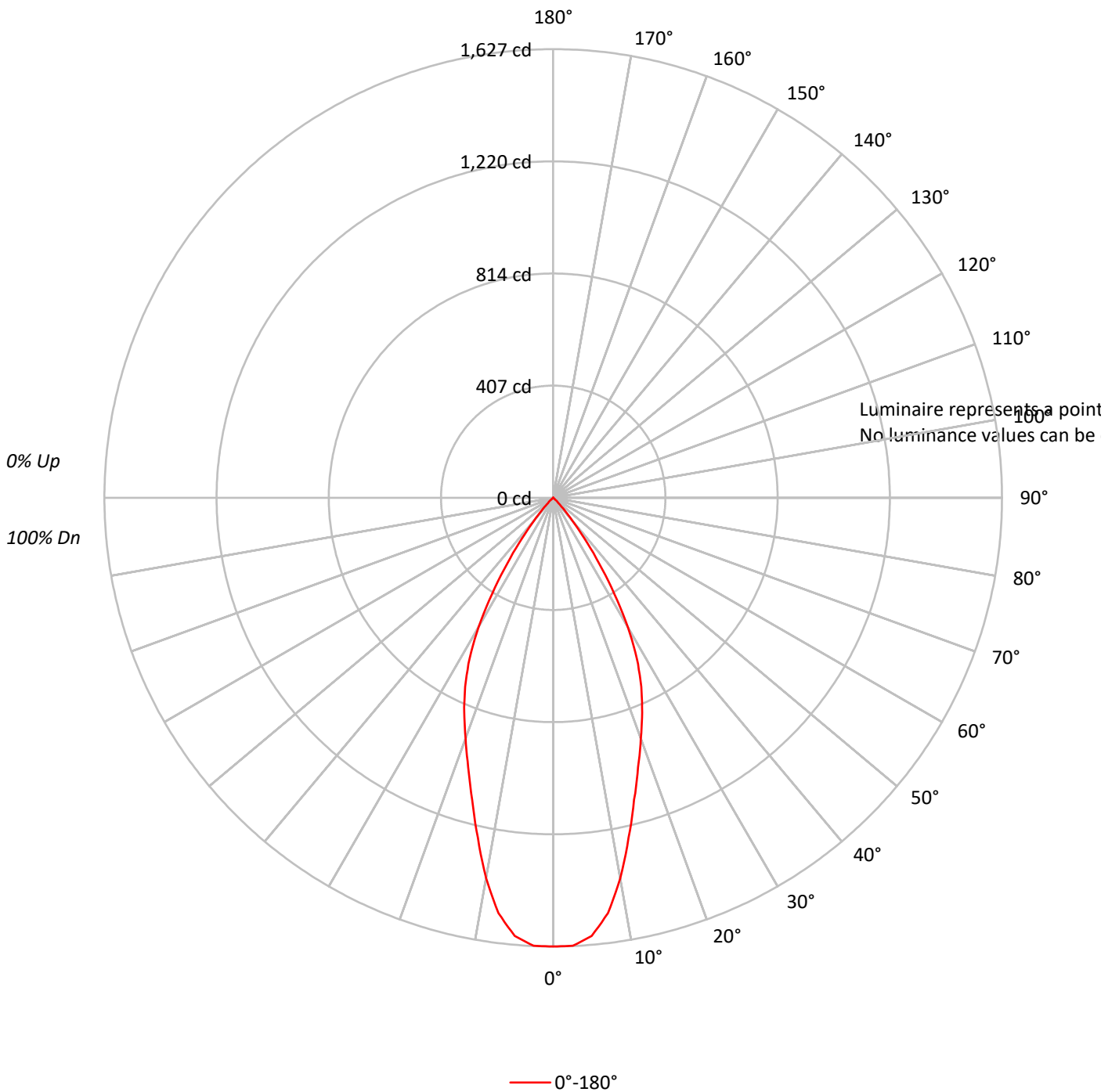
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	64	64	64	64	63	63	63	63	60	60	60	57	57	57	55	55	55	54		
1	62	60	59	58	60	59	58	57	57	56	55	55	54	53	53	52	52	51		
2	59	56	54	53	58	55	54	52	54	52	51	52	51	50	51	50	49	48		
3	56	53	50	48	55	52	50	48	51	49	47	49	48	47	48	47	46	45		
4	54	50	47	45	53	49	47	45	48	46	44	47	45	44	46	44	43	42		
5	51	47	44	42	50	46	44	42	46	43	41	45	43	41	44	42	41	40		
6	49	44	41	39	48	44	41	39	43	41	39	42	40	39	42	40	38	38		
7	47	42	39	37	46	42	39	37	41	38	37	40	38	36	40	38	36	36		
8	45	40	37	35	44	40	37	35	39	36	35	38	36	34	38	36	34	34		
9	43	38	35	33	42	38	35	33	37	35	33	37	34	33	36	34	32	32		
10	41	36	33	31	40	36	33	31	35	33	31	35	33	31	35	32	31	30		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	146.0	14.3	7.7	0°	1627	
10°-20°	318.1	31.2	16.9	5°	1595	146
20°-30°	340.8	33.4	18.1	15°	1134	318
30°-40°	184.7	18.1	9.8	25°	755	341
40°-50°	28.7	2.8	1.5	35°	289	185
50°-60°	0.9	0.1	0.0	45°	26	29
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°	804.9	79.0	42.7	165°	0	0
0°-40°	989.6	97.1	52.4	175°	0	0
0°-60°	1019.1	100.0	54.0	180°	0	0
0°-90°	1019.3	100.0	54.0			
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°	1019.3	100.0	54.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1626.9
2.5°	1625.9
5°	1595.1
7.5°	1519.0
10°	1400.9
12.5°	1263.1
15°	1133.7
17.5°	1024.2
20°	928.7
22.5°	842.8
25°	755.4
27.5°	656.7
30°	540.7
32.5°	412.3
35°	289.2
37.5°	185.2
40°	106.9
42.5°	57.2
45°	26.4
47.5°	14.1
50°	4.8
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)