

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: P246386

Luminaire Tested: **LSR8B20D010 EC8B20930 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246386
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 EC8B20930 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: 1075.1 lumens
Efficiency: 57.0%
Efficacy: 50.5 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

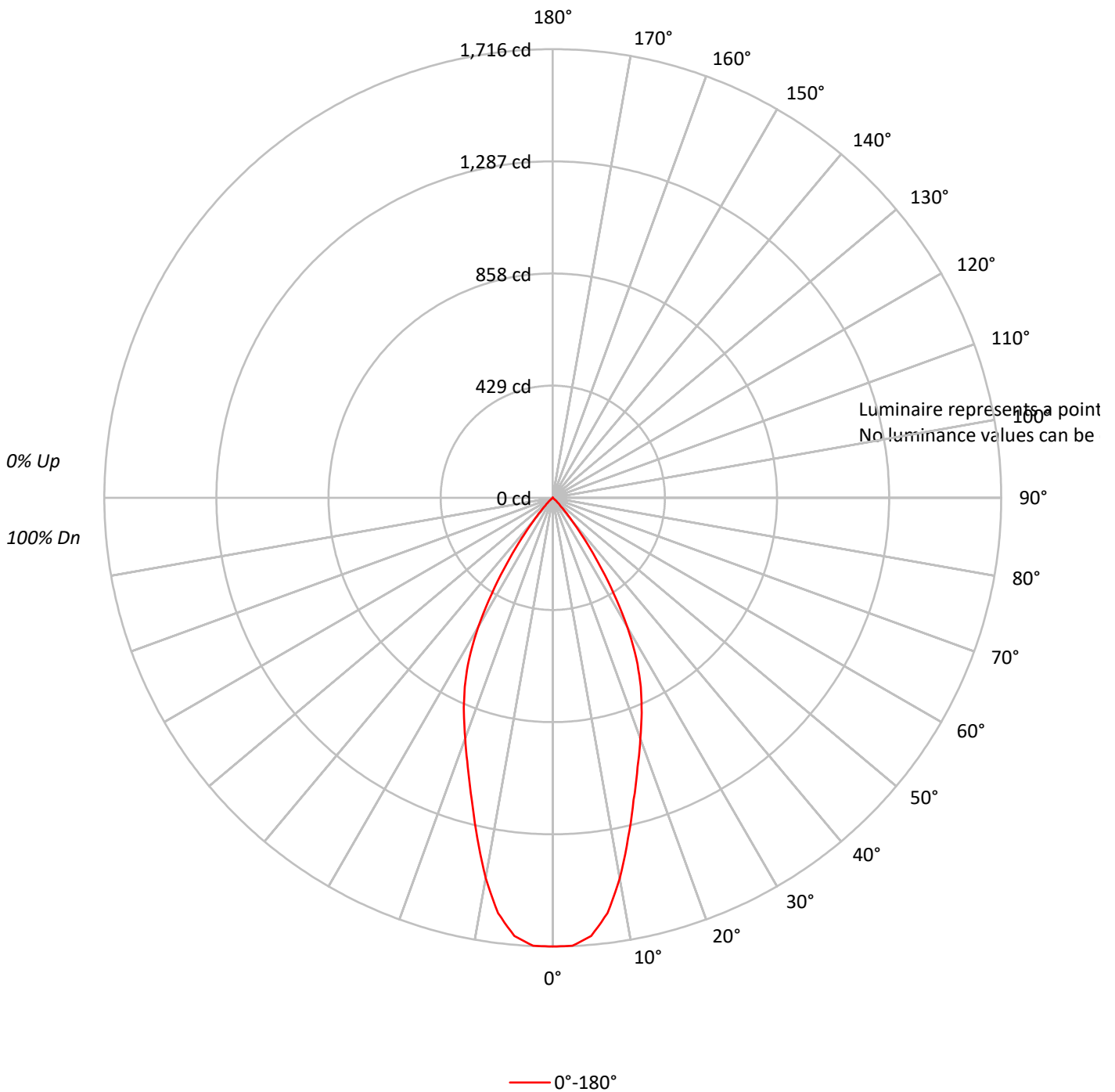
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	68	68	68	66	66	66	66	63	63	63	61	61	61	58	58	58	57		
1	65	63	62	61	64	62	61	60	60	59	58	58	57	56	56	55	55	54		
2	62	59	57	56	61	58	57	55	57	55	54	55	54	53	53	52	51	51		
3	59	56	53	51	58	55	53	51	54	52	50	52	51	49	51	50	48	48		
4	56	53	50	47	55	52	49	47	51	48	47	50	48	46	49	47	46	45		
5	54	50	46	44	53	49	46	44	48	46	44	47	45	43	46	44	43	42		
6	51	47	44	41	51	46	43	41	46	43	41	45	42	41	44	42	40	40		
7	49	44	41	39	48	44	41	39	43	41	39	43	40	38	42	40	38	37		
8	47	42	39	37	46	42	39	37	41	38	36	41	38	36	40	38	36	35		
9	45	40	37	35	44	40	37	35	39	36	34	39	36	34	38	36	34	34		
10	43	38	35	33	43	38	35	33	37	35	33	37	34	33	36	34	33	32		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	153.9	14.3	8.2	0°	1716	
10°-20°	335.5	31.2	17.8	5°	1682	154
20°-30°	359.5	33.4	19.0	15°	1196	336
30°-40°	194.8	18.1	10.3	25°	797	359
40°-50°	30.2	2.8	1.6	35°	305	195
50°-60°	0.9	0.1	0.0	45°	28	30
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°	848.9	79.0	45.0	165°	0	0
0°-40°	1043.7	97.1	55.3	175°	0	0
0°-60°	1074.8	100.0	57.0	180°	0	0
0°-90°	1075.1	100.0	57.0			
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°	1075.1	100.0	57.0			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1715.9
2.5°	1714.8
5°	1682.4
7.5°	1602.1
10°	1477.5
12.5°	1332.3
15°	1195.8
17.5°	1080.2
20°	979.5
22.5°	889.0
25°	796.8
27.5°	692.7
30°	570.3
32.5°	434.8
35°	305.1
37.5°	195.3
40°	112.7
42.5°	60.3
45°	27.8
47.5°	14.8
50°	5.0
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)