

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 EC8B209730 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 EC8B209730 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: 959.0 lumens
Efficiency: 50.8%
Efficacy: 45.0 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

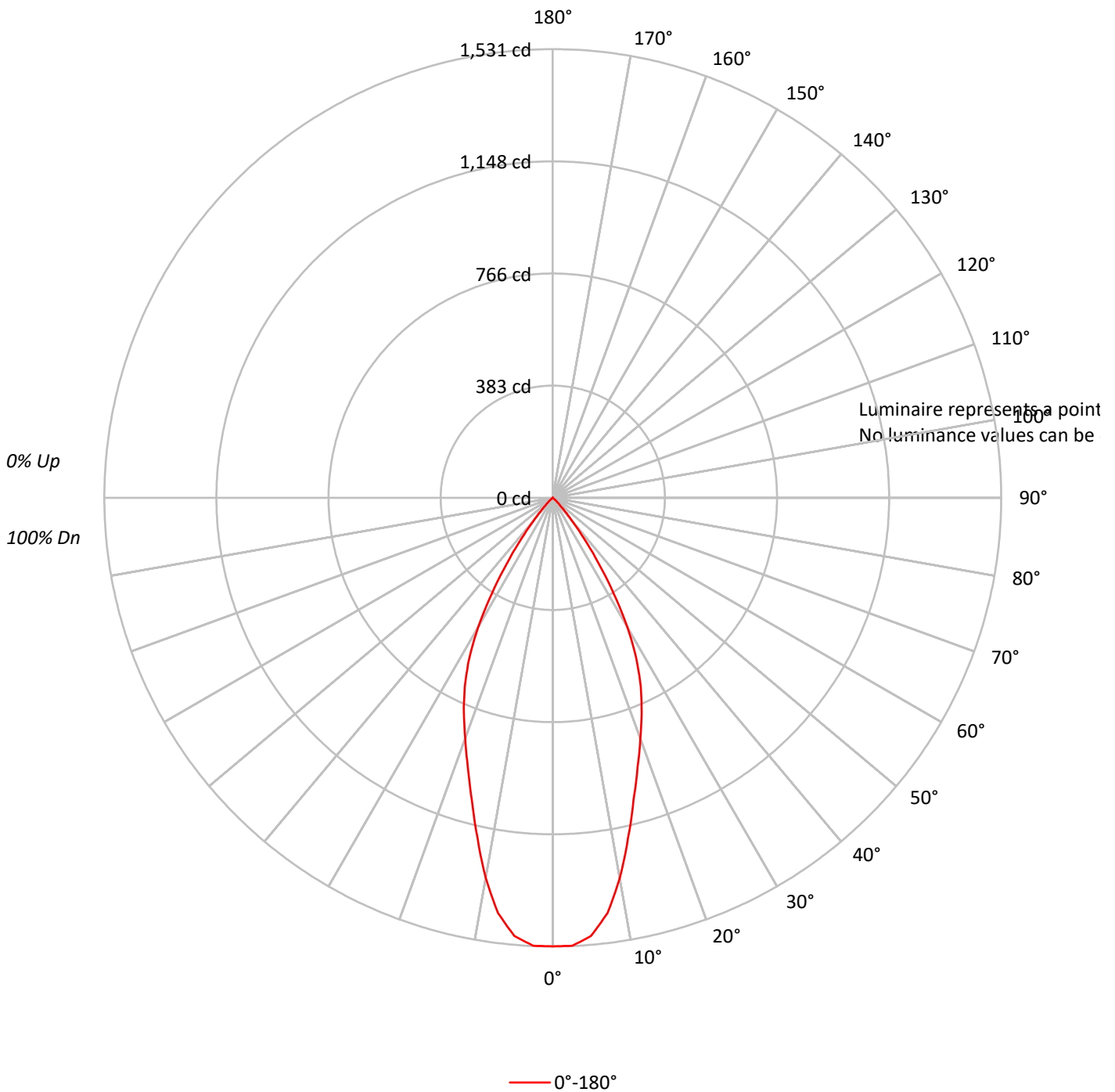
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	61	61	61	59	59	59	59	56	56	56	54	54	54	52	52	52	51		
1	58	57	55	54	57	55	54	53	53	53	52	52	51	50	50	49	49	48		
2	55	53	51	50	54	52	50	49	51	49	48	49	48	47	48	47	46	45		
3	53	50	47	46	52	49	47	45	48	46	45	47	45	44	45	44	43	42		
4	50	47	44	42	50	46	44	42	45	43	42	44	42	41	43	42	41	40		
5	48	44	41	39	47	44	41	39	43	41	39	42	40	39	41	40	38	38		
6	46	42	39	37	45	41	39	37	41	38	37	40	38	36	39	37	36	35		
7	44	40	37	35	43	39	37	35	39	36	34	38	36	34	37	36	34	33		
8	42	37	35	33	41	37	35	33	37	34	33	36	34	32	36	34	32	32		
9	40	36	33	31	40	35	33	31	35	32	31	34	32	31	34	32	31	30		
10	38	34	31	29	38	34	31	29	33	31	29	33	31	29	33	30	29	28		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	137.3	14.3	7.3	0°	1531	
10°-20°	299.3	31.2	15.9	5°	1501	137
20°-30°	320.6	33.4	17.0	15°	1067	299
30°-40°	173.8	18.1	9.2	25°	711	321
40°-50°	27.0	2.8	1.4	35°	272	174
50°-60°	0.8	0.1	0.0	45°	25	27
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°	757.3	79.0	40.1	165°	0	0
0°-40°	931.1	97.1	49.3	175°	0	0
0°-60°	958.8	100.0	50.8	180°	0	0
0°-90°	959.0	100.0	50.8			
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°	959.0	100.0	50.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1530.7
2.5°	1529.7
5°	1500.8
7.5°	1429.2
10°	1318.0
12.5°	1188.5
15°	1066.7
17.5°	963.6
20°	873.8
22.5°	793.0
25°	710.8
27.5°	617.9
30°	508.7
32.5°	387.9
35°	272.2
37.5°	174.2
40°	100.5
42.5°	53.8
45°	24.8
47.5°	13.2
50°	4.5
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



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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)