

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: P246381

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246381
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: LSR8B30D010 EC8B30927 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: 1393.9 lumens
Efficiency: 73.9%
Efficacy: 51.4 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

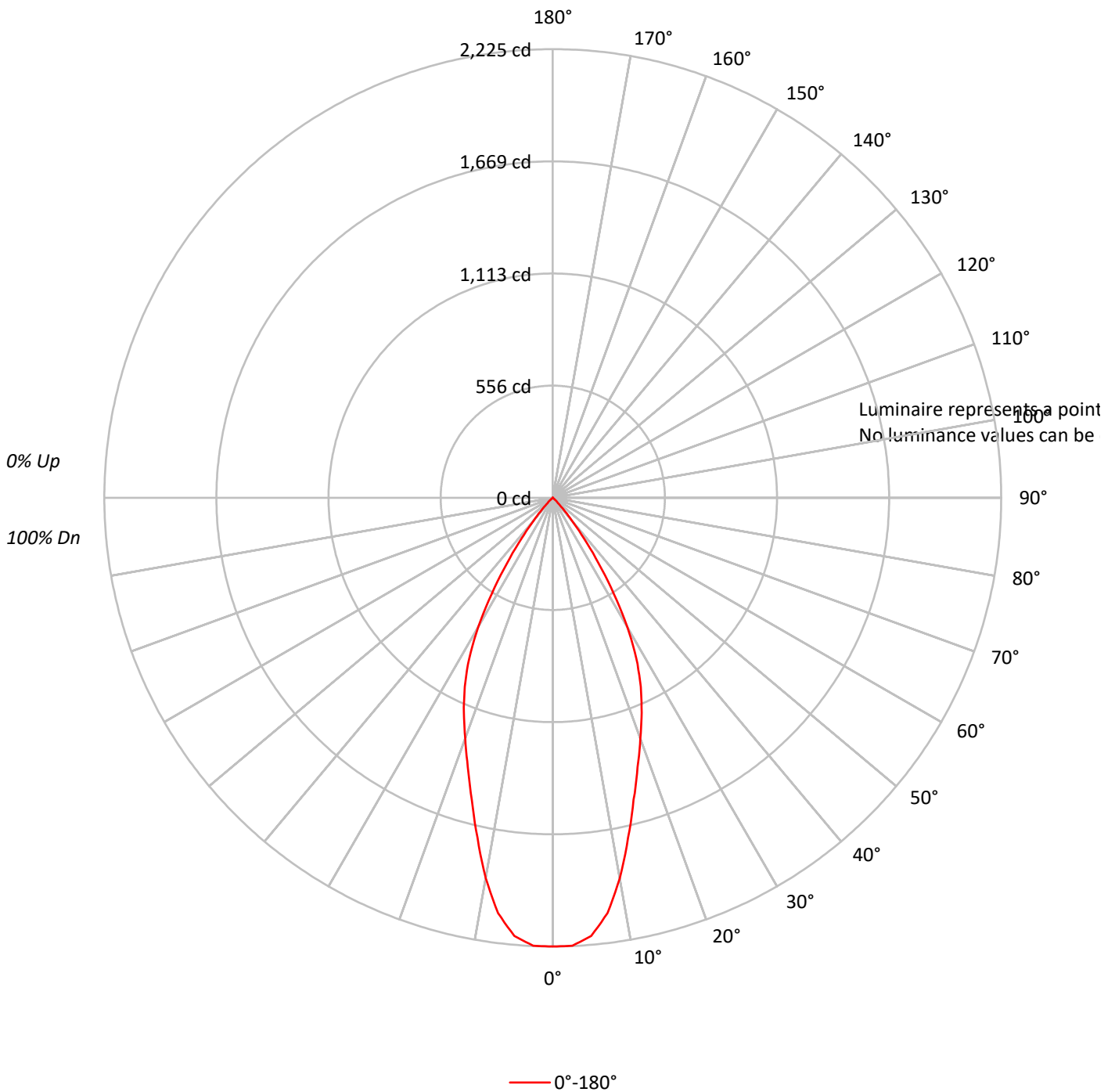
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246381

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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	88	88	88	88	86	86	86	86	82	82	82	79	79	79	75	75	75	74		
1	84	82	81	79	82	81	79	78	78	76	75	75	74	73	72	72	71	70		
2	80	77	74	72	79	76	73	71	73	71	70	71	70	68	69	68	67	66		
3	77	72	69	66	75	71	68	66	69	67	65	68	66	64	66	64	63	62		
4	73	68	64	61	72	67	64	61	66	63	60	64	62	60	63	61	59	58		
5	70	64	60	57	69	64	60	57	62	59	57	61	58	56	60	58	56	55		
6	67	61	57	54	66	60	56	53	59	56	53	58	55	53	57	54	52	51		
7	64	57	53	50	63	57	53	50	56	53	50	55	52	50	54	52	50	49		
8	61	54	50	48	60	54	50	47	53	50	47	53	49	47	52	49	47	46		
9	58	52	48	45	58	51	48	45	51	47	45	50	47	45	49	47	44	44		
10	56	49	45	43	55	49	45	43	48	45	42	48	45	42	47	44	42	41		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	199.6	14.3	10.6	0°	2225	
10°-20°	435.1	31.2	23.1	5°	2181	200
20°-30°	466.1	33.4	24.7	15°	1550	435
30°-40°	252.6	18.1	13.4	25°	1033	466
40°-50°	39.2	2.8	2.1	35°	396	253
50°-60°	1.1	0.1	0.1	45°	36	39
60°-70°	0.3	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°	1100.7	79.0	58.3	165°	0	0
0°-40°	1353.3	97.1	71.7	175°	0	0
0°-60°	1393.6	100.0	73.9	180°	0	0
0°-90°	1393.9	100.0	73.9			
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°	1393.9	100.0	73.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2224.8
2.5°	2223.3
5°	2181.4
7.5°	2077.3
10°	1915.6
12.5°	1727.4
15°	1550.4
17.5°	1400.6
20°	1270.0
22.5°	1152.7
25°	1033.1
27.5°	898.1
30°	739.5
32.5°	563.8
35°	395.6
37.5°	253.2
40°	146.1
42.5°	78.2
45°	36.1
47.5°	19.1
50°	6.6
52.5°	0.7
55°	0.0
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.7
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)