

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: P245661

Luminaire Tested: **LD8B30D010 ER8B30927 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B30D010 ER8B30927 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1960.9 lumens
Efficiency: 89.8%
Efficacy: 72.4 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

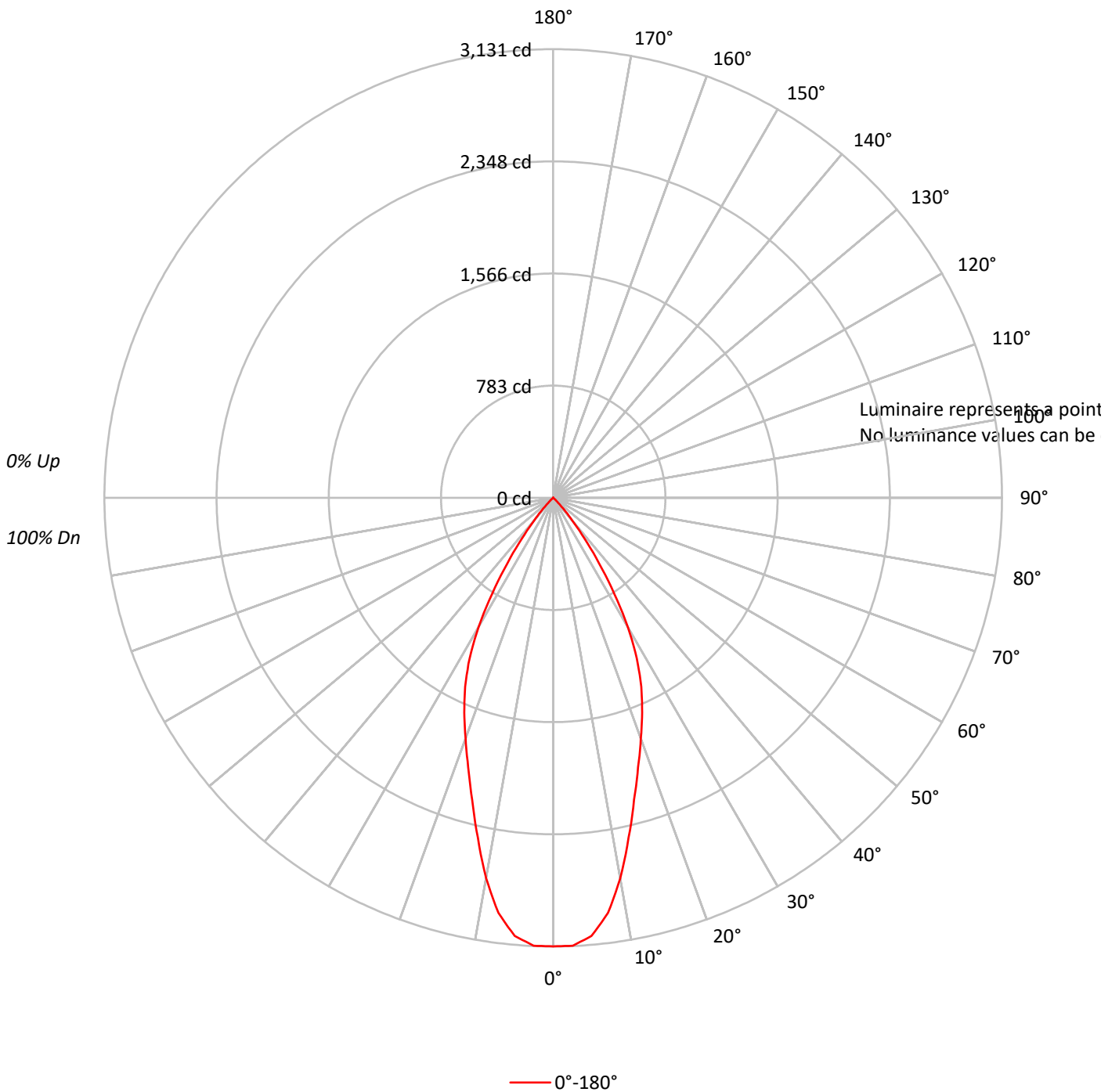
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	104	104	104	104	100	100	100	96	96	96	92	92	92	90
1	102	100	98	96	100	98	96	95	94	93	92	91	90	89	88	87	86	85
2	98	94	90	88	96	92	89	87	89	87	85	87	85	83	84	83	81	80
3	93	88	84	81	92	87	83	80	84	81	79	82	80	77	80	78	76	75
4	89	83	78	75	88	82	78	74	80	76	73	78	75	73	77	74	72	70
5	85	78	73	70	84	77	73	69	76	72	69	74	71	68	73	70	68	66
6	81	74	69	65	80	73	68	65	72	68	65	71	67	64	69	66	64	63
7	78	70	65	61	76	69	65	61	68	64	61	67	63	61	66	63	60	59
8	74	66	61	58	73	66	61	58	65	61	57	64	60	57	63	60	57	56
9	71	63	58	55	70	62	58	55	62	57	54	61	57	54	60	57	54	53
10	68	60	55	52	67	59	55	52	59	55	52	58	54	51	57	54	51	50

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	280.8	14.3	12.9	0°	3131	
10°-20°	612.1	31.2	28.0	5°	3069	281
20°-30°	655.6	33.4	30.0	15°	2181	612
30°-40°	355.3	18.1	16.3	25°	1454	656
40°-50°	55.3	2.8	2.5	35°	556	355
50°-60°	1.5	0.1	0.1	45°	51	55
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°	1548.5	79.0	70.9	165°	0	0
0°-40°	1903.8	97.1	87.2	175°	0	0
0°-60°	1960.6	100.0	89.8	180°	0	0
0°-90°	1960.9	100.0	89.8			
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°	1960.9	100.0	89.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3130.6
2.5°	3128.2
5°	3068.8
7.5°	2922.5
10°	2695.6
12.5°	2429.9
15°	2181.4
17.5°	1970.6
20°	1786.5
22.5°	1621.5
25°	1453.7
27.5°	1263.4
30°	1040.0
32.5°	793.2
35°	556.3
37.5°	356.3
40°	205.4
42.5°	109.5
45°	51.1
47.5°	27.9
50°	8.9
52.5°	0.9
55°	0.0
57.5°	0.9
60°	0.9
62.5°	0.0
65°	0.0
67.5°	0.9
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)