

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: P245667

Luminaire Tested: **LD8B30D010 ER8B30930 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245667
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 ER8B30930 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2067.1 lumens
Efficiency: 94.7%
Efficacy: 76.3 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

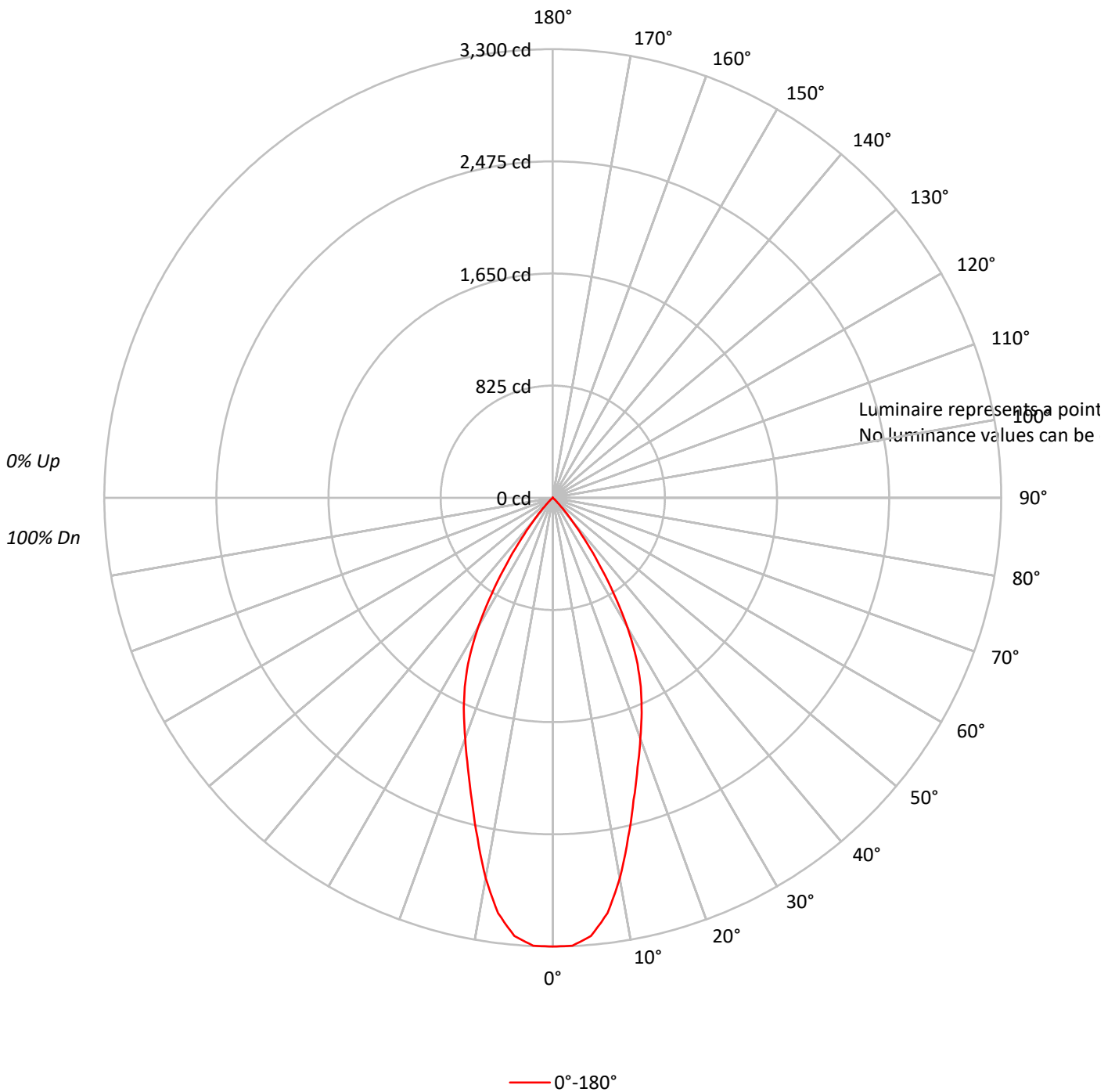
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	110	110	110	110	105	105	105	101	101	101	97	97	97	95
1	108	105	103	101	106	103	101	100	100	98	97	96	95	94	93	92	91	89
2	103	99	95	92	101	97	94	91	94	92	89	91	89	87	89	87	86	84
3	98	93	88	85	97	91	87	84	89	86	83	87	84	82	85	82	80	79
4	94	87	82	79	92	86	82	78	84	80	77	82	79	77	81	78	76	74
5	90	82	77	73	88	81	77	73	80	76	72	78	75	72	77	74	71	70
6	86	78	73	69	84	77	72	69	76	71	68	74	71	68	73	70	67	66
7	82	74	68	65	81	73	68	64	72	67	64	71	67	64	70	66	63	62
8	78	70	65	61	77	69	64	61	68	64	61	67	63	60	66	63	60	59
9	75	66	61	58	74	66	61	58	65	60	57	64	60	57	63	60	57	56
10	72	63	58	55	71	63	58	55	62	57	54	61	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	296.0	14.3	13.6	0°	3300	
10°-20°	645.2	31.2	29.6	5°	3235	296
20°-30°	691.2	33.4	31.7	15°	2300	645
30°-40°	374.5	18.1	17.2	25°	1532	691
40°-50°	58.3	2.8	2.7	35°	586	375
50°-60°	1.5	0.1	0.1	45°	54	58
60°-70°	0.3	0.0	0.0	55°	0	2
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°	1632.4	79.0	74.8	165°	0	0
0°-40°	2007.0	97.1	91.9	175°	0	0
0°-60°	2066.8	100.0	94.7	180°	0	0
0°-90°	2067.1	100.0	94.7			
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°	2067.1	100.0	94.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3300.3
2.5°	3297.6
5°	3235.1
7.5°	3080.8
10°	2841.6
12.5°	2561.6
15°	2299.6
17.5°	2077.3
20°	1883.4
22.5°	1709.3
25°	1532.5
27.5°	1331.9
30°	1096.3
32.5°	836.2
35°	586.5
37.5°	375.6
40°	216.6
42.5°	115.4
45°	53.9
47.5°	29.4
50°	9.4
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)