

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: P245601

Luminaire Tested: **LD8B30D010 ER8B30827 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245601
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 ER8B30827 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2348.1 lumens
Efficiency: 107.6%
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

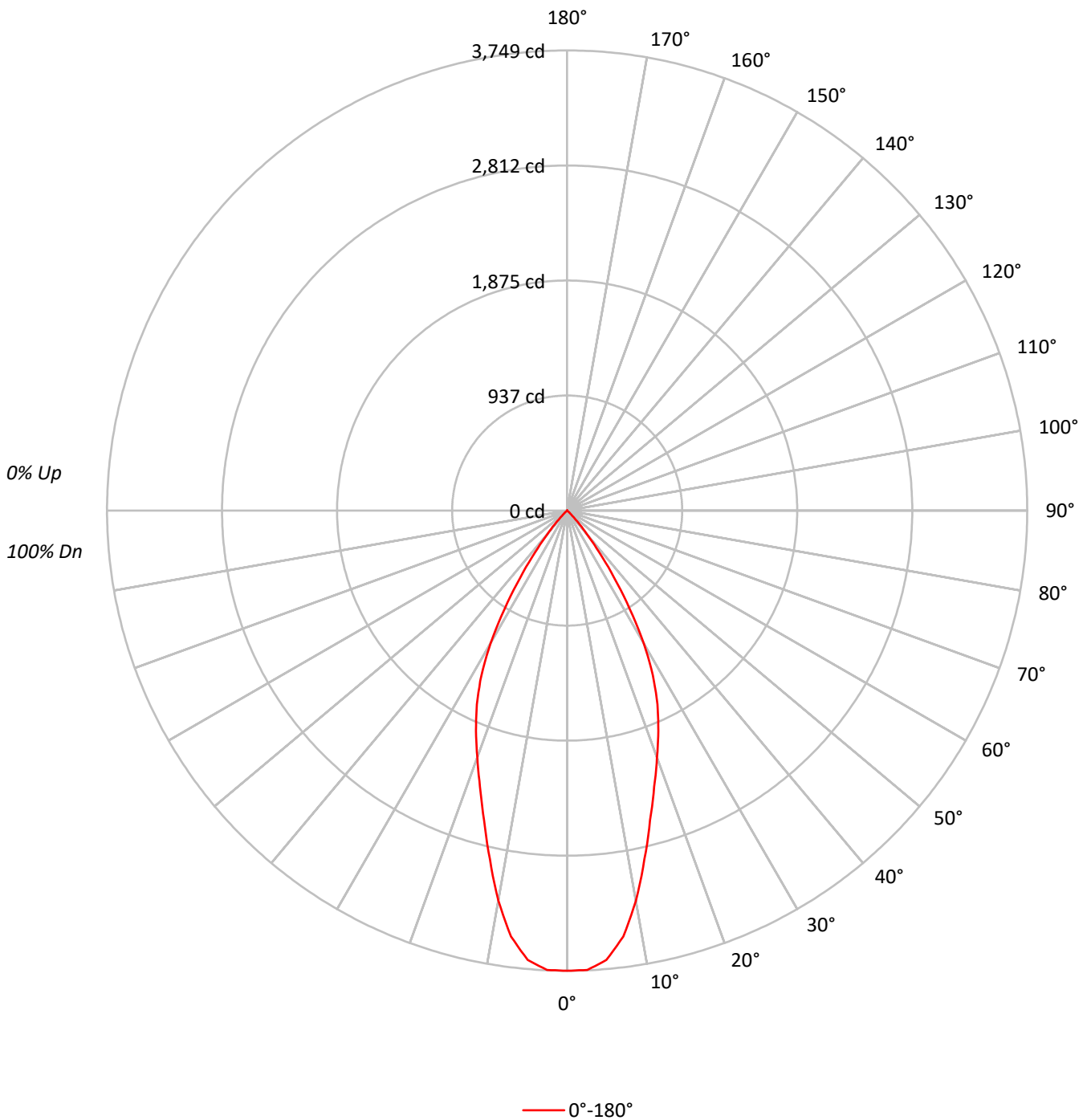
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	128	128	128	128	125	125	125	125	120	120	120	114	114	114	110	110	110	108
1	123	120	117	115	120	117	115	113	113	111	110	109	108	106	105	104	103	102
2	117	112	108	105	115	110	107	104	107	104	101	104	101	99	101	99	97	95
3	112	105	100	96	110	104	99	96	101	97	94	99	95	93	96	94	91	90
4	107	99	94	89	105	98	93	89	96	91	88	94	90	87	92	89	86	84
5	102	94	88	83	100	93	87	83	91	86	82	89	85	82	87	84	81	79
6	97	88	82	78	96	88	82	78	86	81	77	84	80	77	83	79	76	75
7	93	84	78	73	91	83	77	73	82	77	73	80	76	72	79	75	72	71
8	89	79	73	69	88	79	73	69	78	72	69	77	72	69	76	71	68	67
9	85	75	69	65	84	75	69	65	74	69	65	73	68	65	72	68	65	63
10	81	72	66	62	80	71	66	62	70	65	62	70	65	62	69	65	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115599
5°	113747
10°	101066
15°	83389
20°	70199
25°	59226
30°	44341
35°	25079
40°	9902
45°	2669
50°	513
55°	0
60°	68
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	336.3	14.3	15.4	0°	3749	
10°-20°	732.9	31.2	33.6	5°	3675	336
20°-30°	785.1	33.4	36.0	15°	2612	733
30°-40°	425.4	18.1	19.5	25°	1741	785
40°-50°	66.2	2.8	3.0	35°	666	425
50°-60°	1.8	0.1	0.1	45°	61	66
60°-70°	0.4	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°	1854.2	79.0	84.9	165°	0	0
0°-40°	2279.7	97.1	104.4	175°	0	0
0°-60°	2347.7	100.0	107.5	180°	0	0
0°-90°	2348.1	100.0	107.6			
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°	2348.1	100.0	107.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3748.8
2.5°	3745.7
5°	3674.7
7.5°	3499.5
10°	3227.7
12.5°	2909.7
15°	2612.1
17.5°	2359.5
20°	2139.2
22.5°	1941.6
25°	1740.7
27.5°	1512.8
30°	1245.3
32.5°	949.8
35°	666.2
37.5°	426.7
40°	246.0
42.5°	131.1
45°	61.2
47.5°	33.4
50°	10.7
52.5°	1.1
55°	0.0
57.5°	1.1
60°	1.1
62.5°	0.0
65°	0.0
67.5°	1.1
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)