

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: P246369

Luminaire Tested: **LD8B30D010 ER8B30940 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246369
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: LD8B30D010 ER8B30940 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 1584.0 lumens
Efficiency: 83.9%
Efficacy: 58.4 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

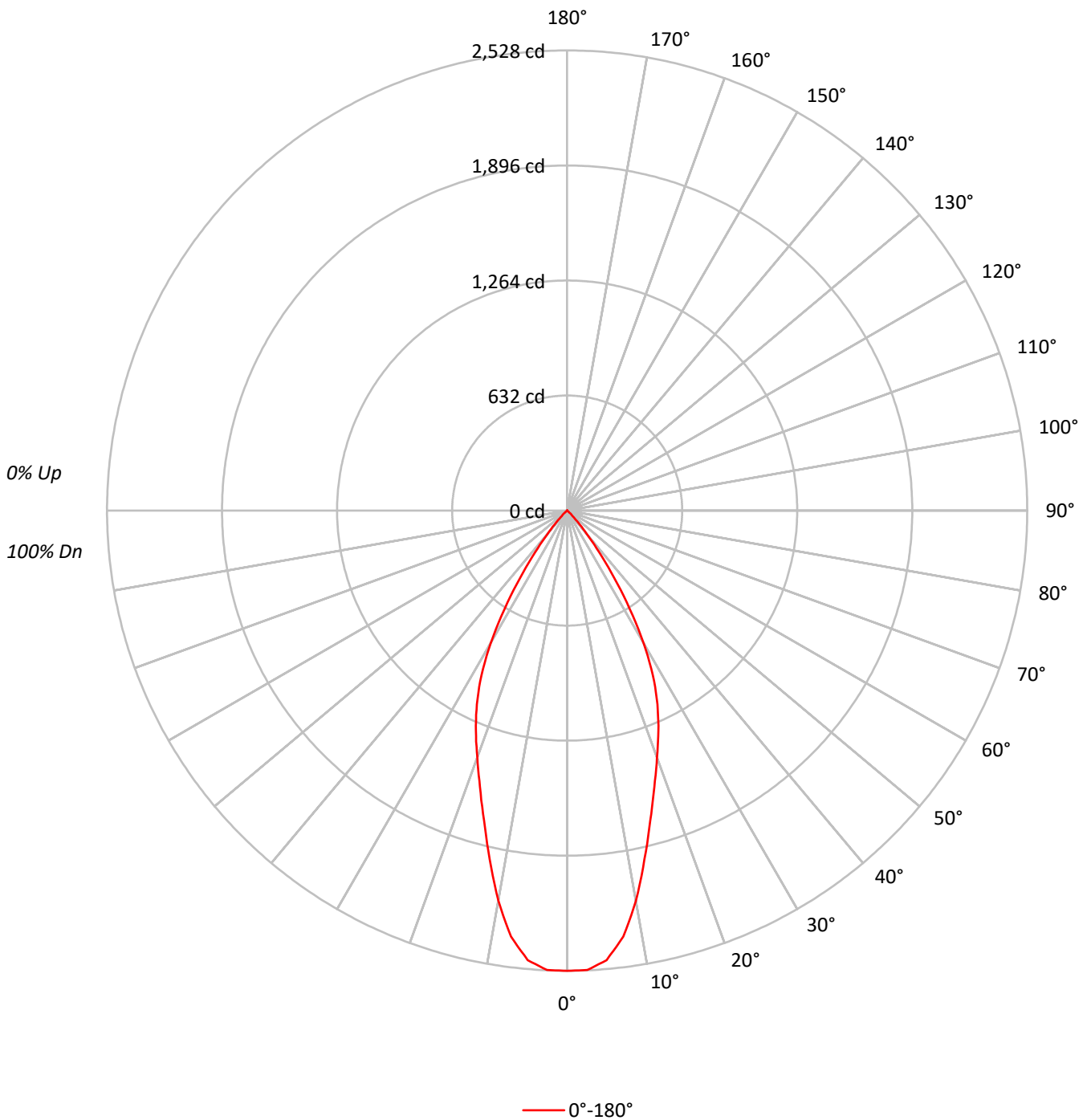
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	98	98	98	98	93	93	93		89	89	89		86	86	86	84
1	96	93	92	90	94	92	90	88	88	87	86		85	84	83		82	81	81	79
2	91	88	84	82	90	86	83	81	83	81	79		81	79	77		79	77	76	74
3	87	82	78	75	86	81	78	75	79	76	74		77	74	72		75	73	71	70
4	83	77	73	70	82	76	72	69	75	71	69		73	70	68		72	69	67	66
5	79	73	68	65	78	72	68	65	71	67	64		69	66	64		68	65	63	62
6	76	69	64	61	75	68	64	61	67	63	60		66	63	60		65	62	60	58
7	72	65	61	57	71	65	60	57	64	60	57		63	59	57		62	59	56	55
8	69	62	57	54	68	61	57	54	61	57	54		60	56	53		59	56	53	52
9	66	59	54	51	65	58	54	51	58	54	51		57	53	51		56	53	50	49
10	63	56	51	48	63	56	51	48	55	51	48		54	51	48		54	50	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	77963
5°	76732
10°	68166
15°	56247
20°	47359
25°	39948
30°	29920
35°	16921
40°	6682
45°	1788
50°	360
55°	0
60°	49
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°	226.8	14.3	12.0	0°	2528	
10°-20°	494.4	31.2	26.2	5°	2479	227
20°-30°	529.6	33.4	28.1	15°	1762	494
30°-40°	287.0	18.1	15.2	25°	1174	530
40°-50°	44.6	2.8	2.4	35°	450	287
50°-60°	1.3	0.1	0.1	45°	41	45
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°	1250.8	79.0	66.3	165°	0	0
0°-40°	1537.8	97.1	81.5	175°	0	0
0°-60°	1583.7	100.0	83.9	180°	0	0
0°-90°	1584.0	100.0	83.9			
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°	1584.0	100.0	83.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2528.3
2.5°	2526.7
5°	2478.9
7.5°	2360.7
10°	2177.0
12.5°	1963.1
15°	1761.9
17.5°	1591.6
20°	1443.2
22.5°	1309.9
25°	1174.1
27.5°	1020.6
30°	840.3
32.5°	640.7
35°	449.5
37.5°	287.7
40°	166.0
42.5°	88.9
45°	41.0
47.5°	21.8
50°	7.5
52.5°	0.8
55°	0.0
57.5°	0.8
60°	0.8
62.5°	0.0
65°	0.0
67.5°	0.8
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)