

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: P245625

Luminaire Tested: **LD8B30D010 ER8B30850 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245625
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 ER8B30850 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 2535.0 lumens
Efficiency: 116.1%
Efficacy: 93.5 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

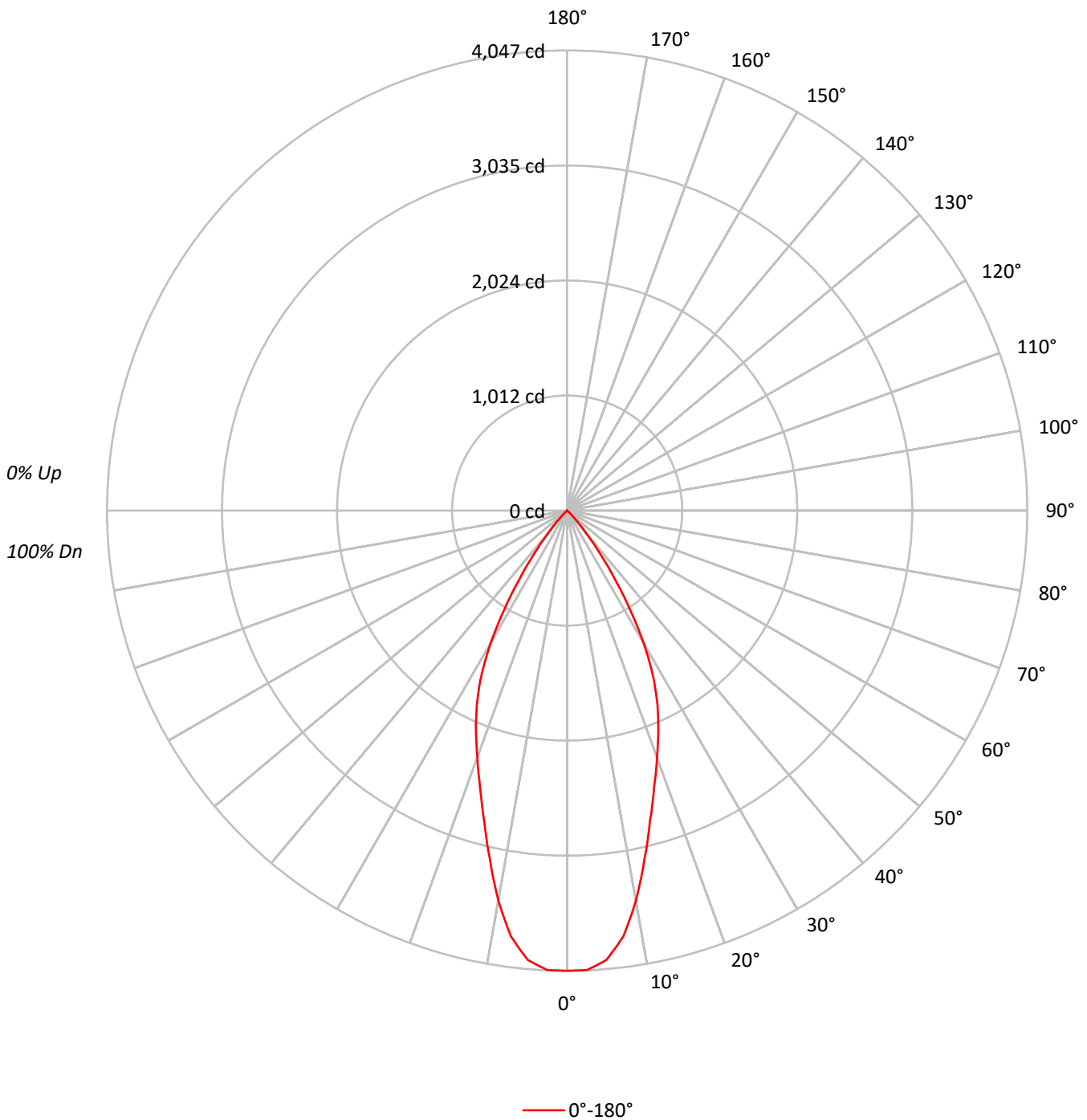
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	138	138	138	138	135	135	135	135	129	129	129	124	124	124	118	118	118	116
1	132	129	127	124	129	127	124	122	122	120	118	118	116	115	114	113	112	110
2	126	121	117	113	124	119	115	112	115	112	109	112	109	107	109	107	105	103
3	121	114	108	104	118	112	107	103	109	105	102	106	103	100	104	101	99	97
4	115	107	101	97	113	106	100	96	103	99	95	101	97	94	99	96	93	91
5	110	101	95	90	108	100	94	90	98	93	89	96	92	88	94	90	87	86
6	105	95	89	84	103	94	88	84	93	87	84	91	87	83	90	86	82	81
7	100	90	84	79	99	90	83	79	88	83	79	87	82	78	85	81	78	76
8	96	86	79	75	94	85	79	75	84	78	74	83	78	74	82	77	74	72
9	92	81	75	71	90	81	75	71	80	74	70	79	74	70	78	73	70	68
10	88	77	71	67	87	77	71	67	76	70	67	75	70	67	74	70	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124804
5°	122804
10°	109116
15°	90029
20°	75790
25°	63945
30°	47870
35°	27074
40°	10691
45°	2883
50°	552
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°	363.0	14.3	16.6	0°	4047	
10°-20°	791.3	31.2	36.2	5°	3967	363
20°-30°	847.6	33.4	38.8	15°	2820	791
30°-40°	459.3	18.1	21.0	25°	1879	848
40°-50°	71.5	2.8	3.3	35°	719	459
50°-60°	1.9	0.1	0.1	45°	66	71
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°	2001.9	79.0	91.7	165°	0	0
0°-40°	2461.2	97.1	112.7	175°	0	0
0°-60°	2534.5	100.0	116.1	180°	0	0
0°-90°	2535.0	100.0	116.1			
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°	2535.0	100.0	116.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4047.3
2.5°	4044.0
5°	3967.3
7.5°	3778.2
10°	3484.8
12.5°	3141.4
15°	2820.1
17.5°	2547.5
20°	2309.6
22.5°	2096.2
25°	1879.4
27.5°	1633.3
30°	1344.4
32.5°	1025.4
35°	719.2
37.5°	460.6
40°	265.6
42.5°	141.5
45°	66.1
47.5°	36.1
50°	11.5
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)