

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: P244311

Luminaire Tested: **LD8B30D010 ER8B30830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2694.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

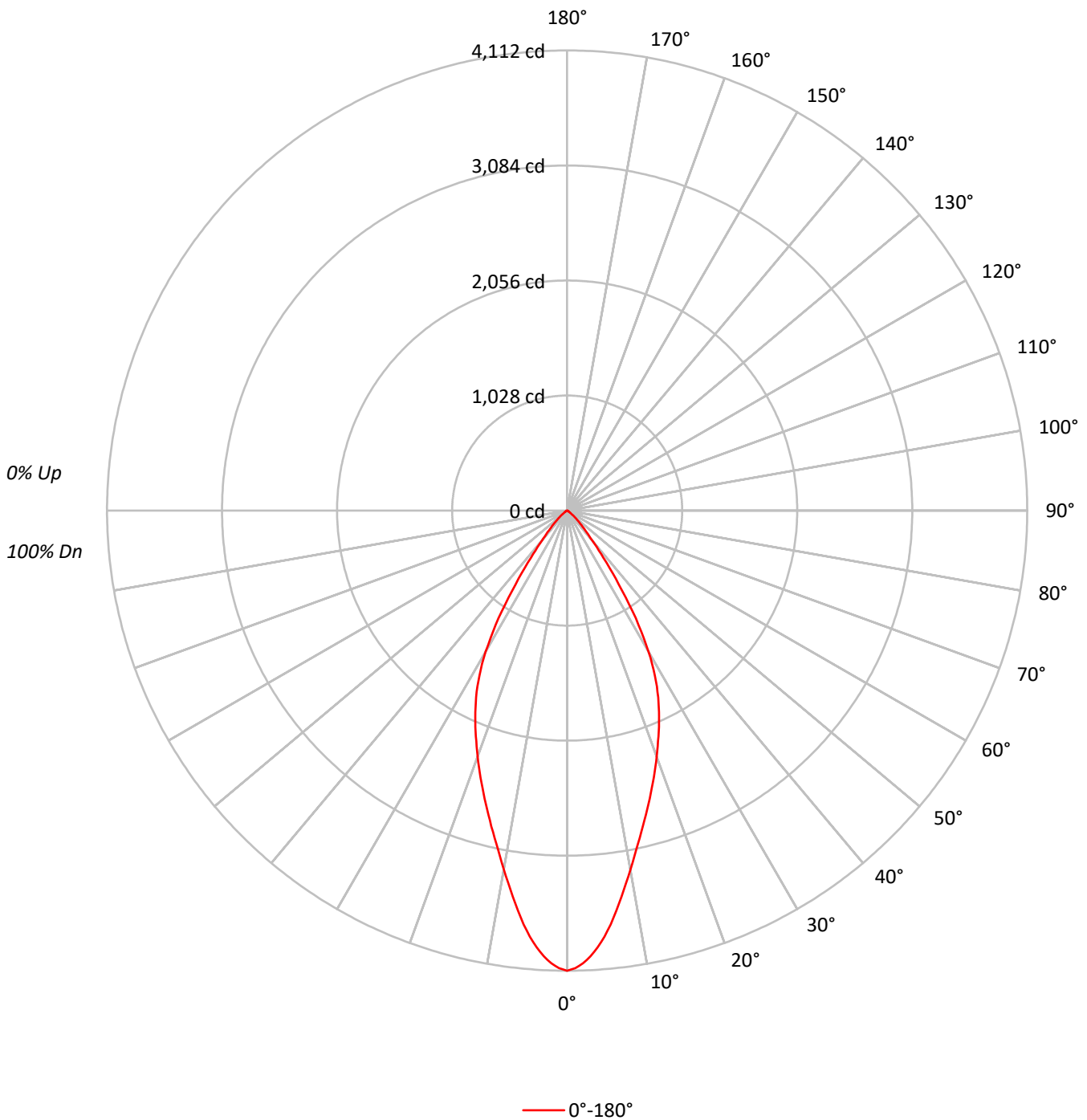
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	126811
5°	118285
10°	101961
15°	88241
20°	76762
25°	65966
30°	51833
35°	30243
40°	13952
45°	7222
50°	3622
55°	1763
60°	900
65°	533
70°	243
75°	214
80°	160
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.8	12.8
10°-20°	772.8	28.7
20°-30°	878.7	32.6
30°-40°	516.0	19.2
40°-50°	138.5	5.1
50°-60°	32.9	1.2
60°-70°	7.5	0.3
70°-80°	1.7	0.1
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1997.3	74.1
0°-40°	2513.4	93.3
0°-60°	2684.7	99.7
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4112	
5°	3821	346
15°	2764	773
25°	1939	879
35°	803	516
45°	166	138
55°	33	33
65°	7	7
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4112.4
1°	4089.7
2°	4047.8
3°	3988.7
4°	3912.3
5°	3821.3
6°	3718.5
7°	3602.0
8°	3485.5
9°	3368.2
10°	3256.3
11°	3147.1
12°	3044.3
13°	2948.7
14°	2853.2
15°	2764.1
16°	2676.7
17°	2590.3
18°	2506.6
19°	2422.0
20°	2339.2
21°	2256.4
22°	2177.2
23°	2099.0
24°	2018.9
25°	1938.8
26°	1856.0
27°	1766.0
28°	1671.4
29°	1567.6
30°	1455.7
32.5°	1141.8
35°	803.4
37.5°	529.5
40°	346.6
42.5°	239.3
45°	165.6
47.5°	113.7
50°	75.5
52.5°	49.1
55°	32.8
57.5°	21.8
60°	14.6
62.5°	10.0
65°	7.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	4.5
70°	2.7
72.5°	1.8
75°	1.8
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)