

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: P244316

Luminaire Tested: **LD8B20D010 ER8B20835 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244316  
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: LD8B20D010 ER8B20835 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2011.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

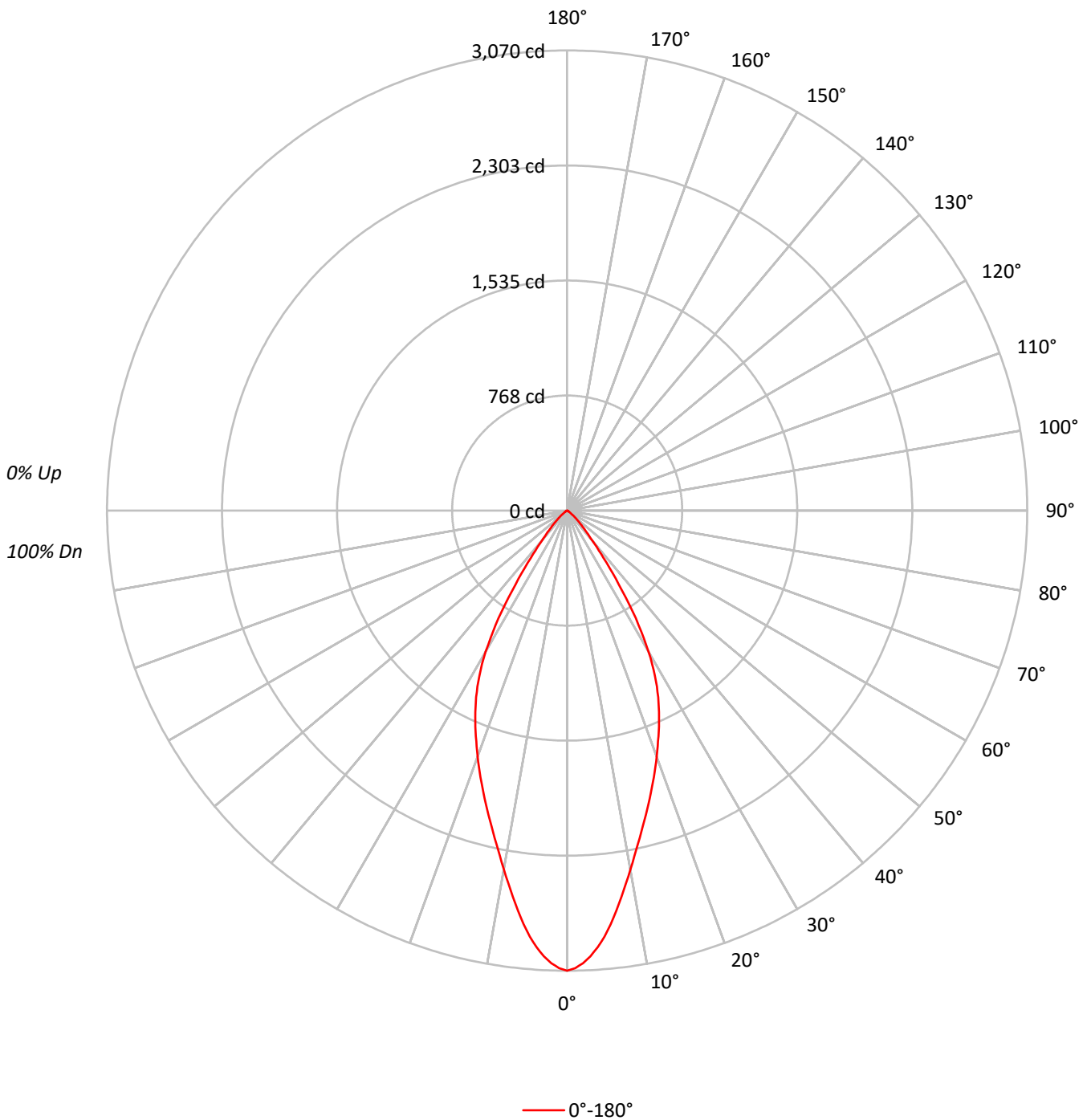
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	94661
5°	88297
10°	76110
15°	65869
20°	57299
25°	49243
30°	38694
35°	22575
40°	10418
45°	5390
50°	2706
55°	1312
60°	672
65°	394
70°	180
75°	167
80°	124
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.1	12.8
10°-20°	576.9	28.7
20°-30°	655.9	32.6
30°-40°	385.2	19.2
40°-50°	103.4	5.1
50°-60°	24.5	1.2
60°-70°	5.6	0.3
70°-80°	1.3	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°	1491.0	74.1
0°-40°	1876.2	93.3
0°-60°	2004.1	99.7
0°-90°	2011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3070	
5°	2852	258
15°	2063	577
25°	1447	656
35°	600	385
45°	124	103
55°	24	25
65°	5	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3069.8
1°	3052.8
2°	3021.6
3°	2977.4
4°	2920.4
5°	2852.5
6°	2775.7
7°	2688.8
8°	2601.9
9°	2514.3
10°	2430.7
11°	2349.2
12°	2272.5
13°	2201.2
14°	2129.9
15°	2063.3
16°	1998.1
17°	1933.6
18°	1871.1
19°	1807.9
20°	1746.1
21°	1684.3
22°	1625.2
23°	1566.8
24°	1507.1
25°	1447.3
26°	1385.5
27°	1318.3
28°	1247.6
29°	1170.2
30°	1086.7
32.5°	852.3
35°	599.7
37.5°	395.3
40°	258.8
42.5°	178.6
45°	123.6
47.5°	84.9
50°	56.4
52.5°	36.7
55°	24.4
57.5°	16.3
60°	10.9
62.5°	7.5
65°	5.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.4
70°	2.0
72.5°	1.4
75°	1.4
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)