

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: P244388

Luminaire Tested: **LD8B20D010 ER8B20835 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20835 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2133.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

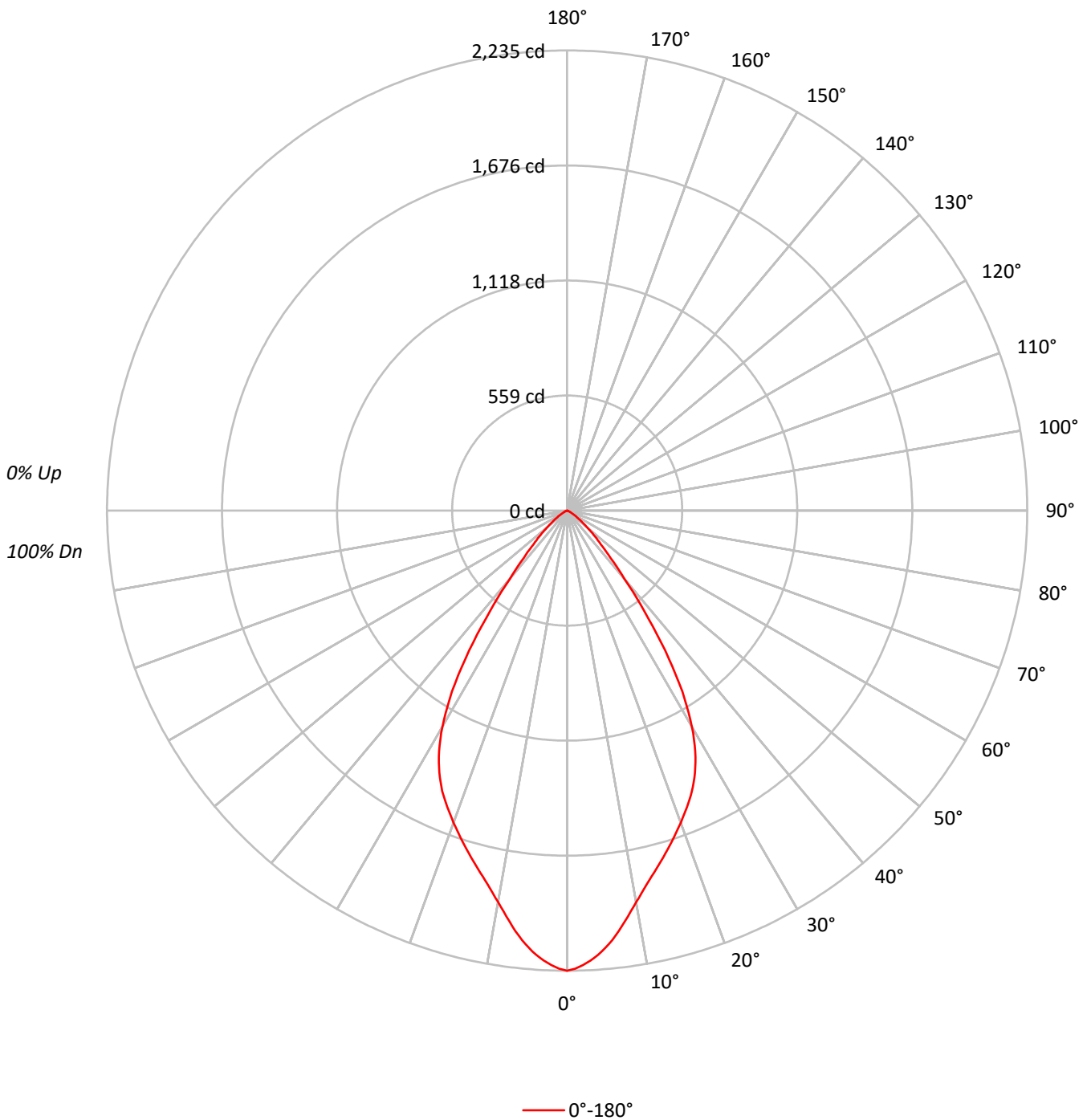
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

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

	0°
0°	68922
5°	66000
10°	60476
15°	56273
20°	52928
25°	49519
30°	43184
35°	31211
40°	17498
45°	10065
50°	6160
55°	3505
60°	1826
65°	927
70°	505
75°	298
80°	178
85°	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.9	9.2
10°-20°	495.5	23.2
20°-30°	661.2	31.0
30°-40°	509.6	23.9
40°-50°	190.0	8.9
50°-60°	62.1	2.9
60°-70°	14.3	0.7
70°-80°	2.9	0.1
80°-90°	0.4	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°	1353.6	63.5
0°-40°	1863.2	87.4
0°-60°	2115.4	99.2
0°-90°	2133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2235	
5°	2132	197
15°	1763	496
25°	1455	661
35°	829	510
45°	231	190
55°	65	62
65°	13	14
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2235.1
1°	2225.4
2°	2209.1
3°	2188.2
4°	2162.7
5°	2132.2
6°	2097.5
7°	2057.8
8°	2015.5
9°	1971.6
10°	1931.4
11°	1892.7
12°	1856.5
13°	1823.3
14°	1792.8
15°	1762.7
16°	1732.1
17°	1702.6
18°	1672.0
19°	1641.9
20°	1612.9
21°	1582.8
22°	1553.8
23°	1523.2
24°	1491.1
25°	1455.4
26°	1416.2
27°	1372.9
28°	1325.0
29°	1271.4
30°	1212.8
32.5°	1041.1
35°	829.1
37.5°	614.1
40°	434.7
42.5°	311.4
45°	230.8
47.5°	173.8
50°	128.4
52.5°	91.7
55°	65.2
57.5°	44.8
60°	29.6
62.5°	19.4
65°	12.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.7
70°	5.6
72.5°	3.6
75°	2.5
77.5°	1.5
80°	1.0
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)