

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: P244382

Luminaire Tested: **LD8B20D010 ER8B20830 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244382  
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 ER8B20830 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2051.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

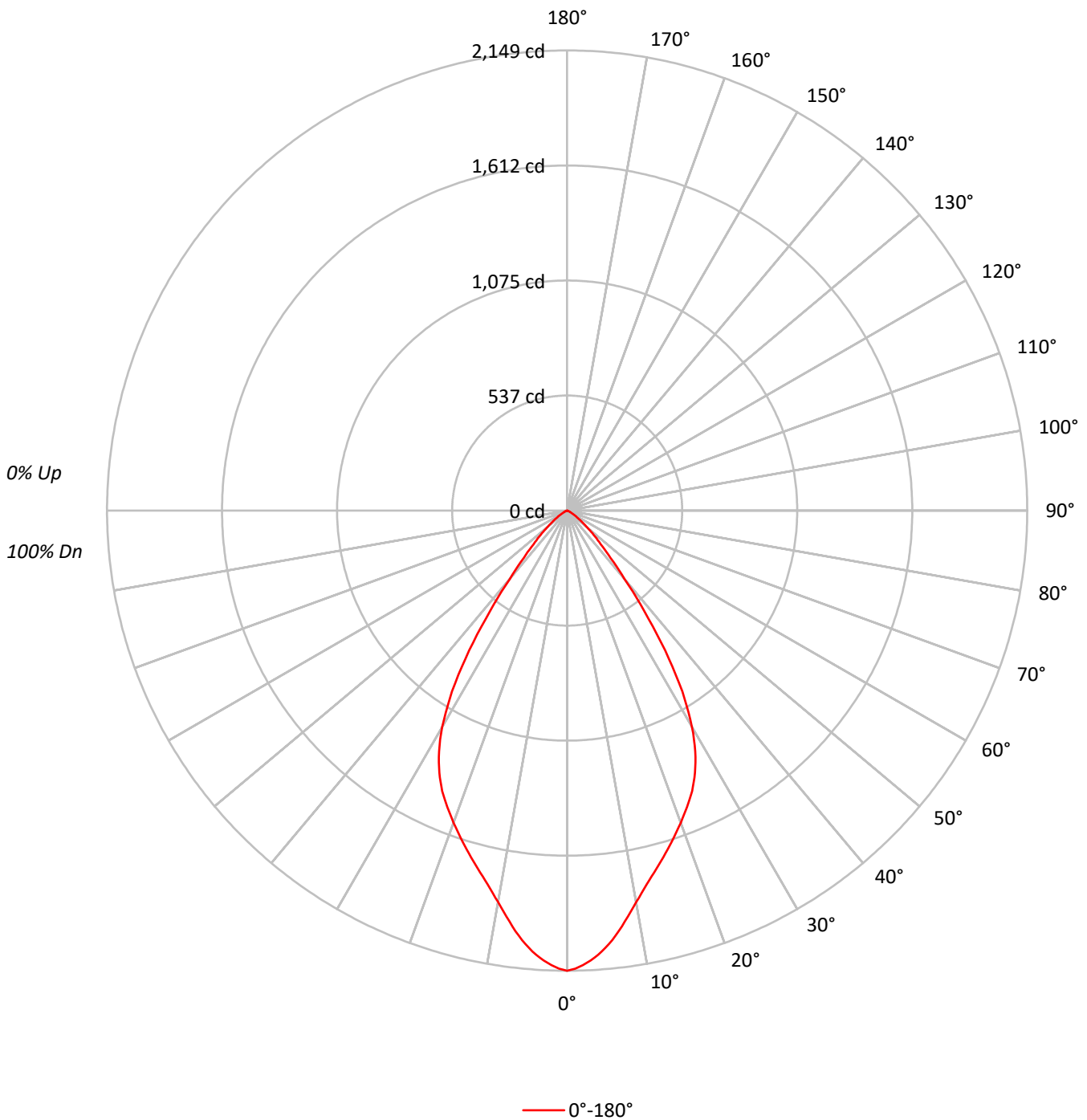
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	66273
5°	63462
10°	58150
15°	54108
20°	50893
25°	47617
30°	41525
35°	30010
40°	16826
45°	9681
50°	5925
55°	3371
60°	1752
65°	897
70°	487
75°	298
80°	178
85°	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.3	9.2
10°-20°	476.5	23.2
20°-30°	635.8	31.0
30°-40°	490.0	23.9
40°-50°	182.7	8.9
50°-60°	59.7	2.9
60°-70°	13.8	0.7
70°-80°	2.8	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°	1301.5	63.5
0°-40°	1791.6	87.4
0°-60°	2034.0	99.2
0°-90°	2051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2149	
5°	2050	189
15°	1695	476
25°	1400	636
35°	797	490
45°	222	183
55°	63	60
65°	12	14
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2149.2
1°	2139.9
2°	2124.2
3°	2104.1
4°	2079.6
5°	2050.2
6°	2016.9
7°	1978.7
8°	1938.0
9°	1895.8
10°	1857.1
11°	1819.9
12°	1785.1
13°	1753.2
14°	1723.8
15°	1694.9
16°	1665.5
17°	1637.1
18°	1607.7
19°	1578.8
20°	1550.9
21°	1522.0
22°	1494.0
23°	1464.6
24°	1433.8
25°	1399.5
26°	1361.7
27°	1320.1
28°	1274.0
29°	1222.6
30°	1166.2
32.5°	1001.1
35°	797.2
37.5°	590.5
40°	418.0
42.5°	299.4
45°	222.0
47.5°	167.1
50°	123.5
52.5°	88.2
55°	62.7
57.5°	43.1
60°	28.4
62.5°	18.6
65°	12.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.3
70°	5.4
72.5°	3.4
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)