

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: P244328

Luminaire Tested: **LD8B20D010 ER8B20850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244328  
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 ER8B20850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2037.0 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

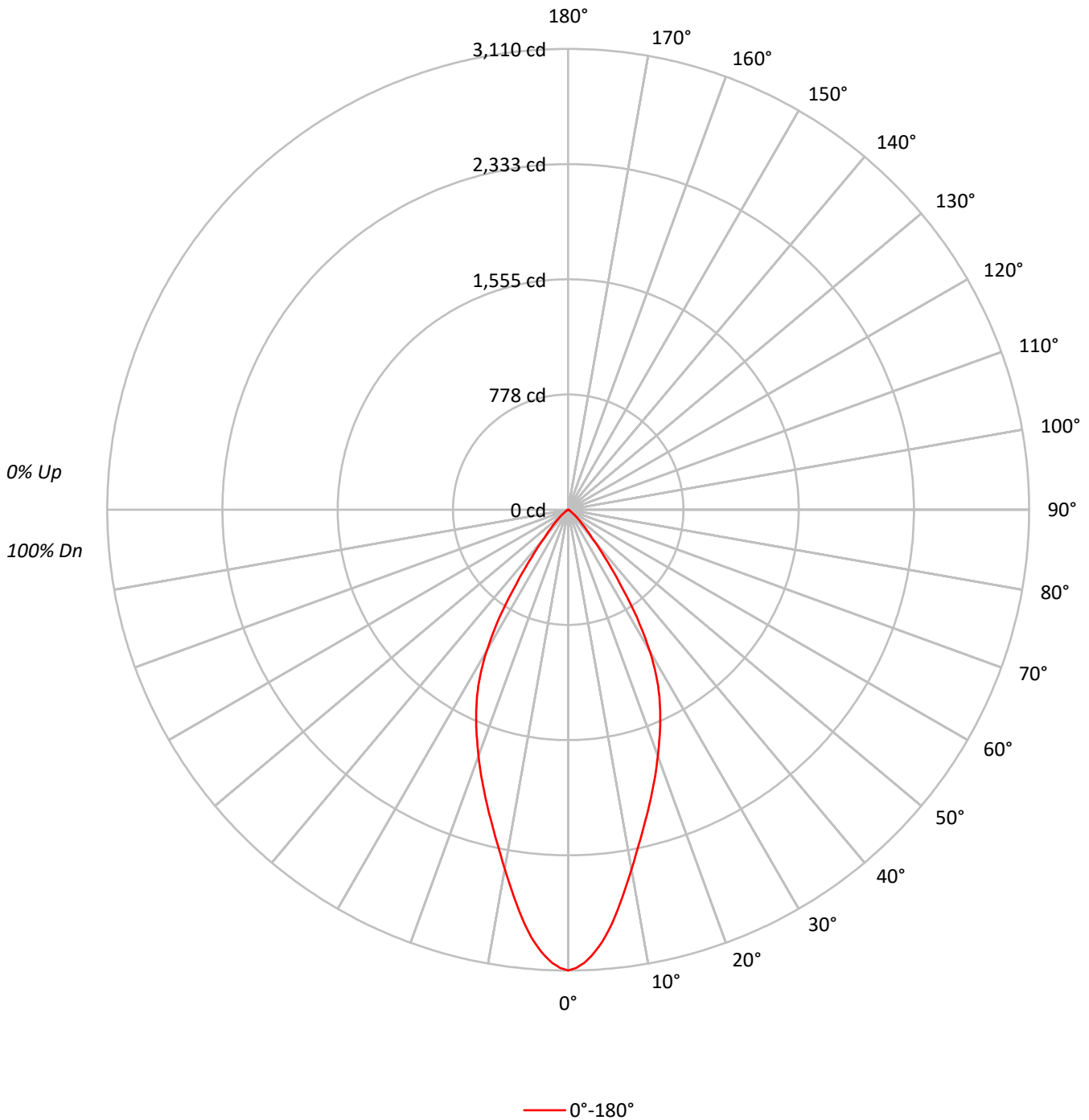
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	95886
5°	89439
10°	77093
15°	66721
20°	58040
25°	49879
30°	39192
35°	22869
40°	10551
45°	5460
50°	2739
55°	1333
60°	678
65°	401
70°	189
75°	167
80°	124
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	12.8
10°-20°	584.4	28.7
20°-30°	664.4	32.6
30°-40°	390.2	19.2
40°-50°	104.7	5.1
50°-60°	24.8	1.2
60°-70°	5.7	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°	1510.2	74.1
0°-40°	1900.4	93.3
0°-60°	2030.0	99.7
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3110	
5°	2889	261
15°	2090	584
25°	1466	664
35°	608	390
45°	125	105
55°	25	25
65°	6	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3109.5
1°	3092.3
2°	3060.7
3°	3015.9
4°	2958.2
5°	2889.4
6°	2811.6
7°	2723.6
8°	2635.5
9°	2546.8
10°	2462.1
11°	2379.6
12°	2301.9
13°	2229.6
14°	2157.4
15°	2090.0
16°	2023.9
17°	1958.6
18°	1895.3
19°	1831.3
20°	1768.7
21°	1706.1
22°	1646.2
23°	1587.1
24°	1526.5
25°	1466.0
26°	1403.4
27°	1335.3
28°	1263.8
29°	1185.3
30°	1100.7
32.5°	863.4
35°	607.5
37.5°	400.4
40°	262.1
42.5°	180.9
45°	125.2
47.5°	86.0
50°	57.1
52.5°	37.1
55°	24.8
57.5°	16.5
60°	11.0
62.5°	7.6
65°	5.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.4
70°	2.1
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)