

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: P244376

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244376  
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: LSR8B20D010 EC8B20827 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2001.1 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

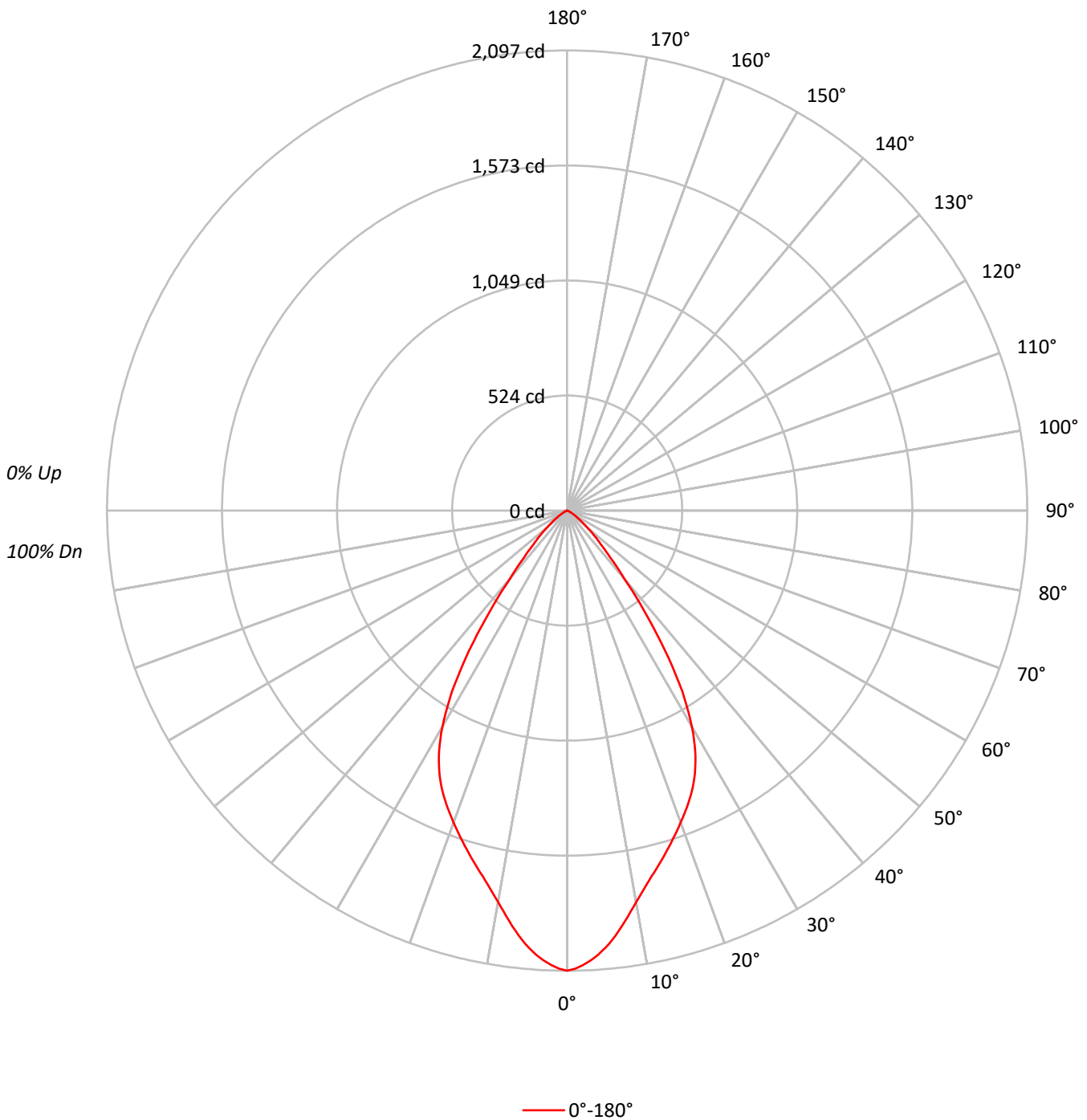
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	64658
5°	61914
10°	56734
15°	52790
20°	49653
25°	46453
30°	40513
35°	29280
40°	16416
45°	9446
50°	5781
55°	3290
60°	1708
65°	876
70°	478
75°	286
80°	178
85°	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	9.2
10°-20°	464.9	23.2
20°-30°	620.3	31.0
30°-40°	478.1	23.9
40°-50°	178.3	8.9
50°-60°	58.3	2.9
60°-70°	13.5	0.7
70°-80°	2.7	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°	1269.8	63.5
0°-40°	1747.9	87.3
0°-60°	1984.5	99.2
0°-90°	2001.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2097	
5°	2000	185
15°	1654	465
25°	1365	620
35°	778	478
45°	217	178
55°	61	58
65°	12	13
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2096.8
1°	2087.7
2°	2072.4
3°	2052.8
4°	2028.9
5°	2000.2
6°	1967.7
7°	1930.4
8°	1890.7
9°	1849.6
10°	1811.9
11°	1775.5
12°	1741.6
13°	1710.5
14°	1681.8
15°	1653.6
16°	1624.9
17°	1597.2
18°	1568.5
19°	1540.3
20°	1513.1
21°	1484.9
22°	1457.6
23°	1428.9
24°	1398.8
25°	1365.3
26°	1328.5
27°	1287.9
28°	1243.0
29°	1192.8
30°	1137.8
32.5°	976.7
35°	777.8
37.5°	576.1
40°	407.8
42.5°	292.1
45°	216.6
47.5°	163.0
50°	120.5
52.5°	86.1
55°	61.2
57.5°	42.1
60°	27.7
62.5°	18.2
65°	12.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.1
70°	5.3
72.5°	3.3
75°	2.4
77.5°	1.4
80°	1.0
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)