

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: P244346

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244346  
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: LSR8B20D010 EC8B20935 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1715.1 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

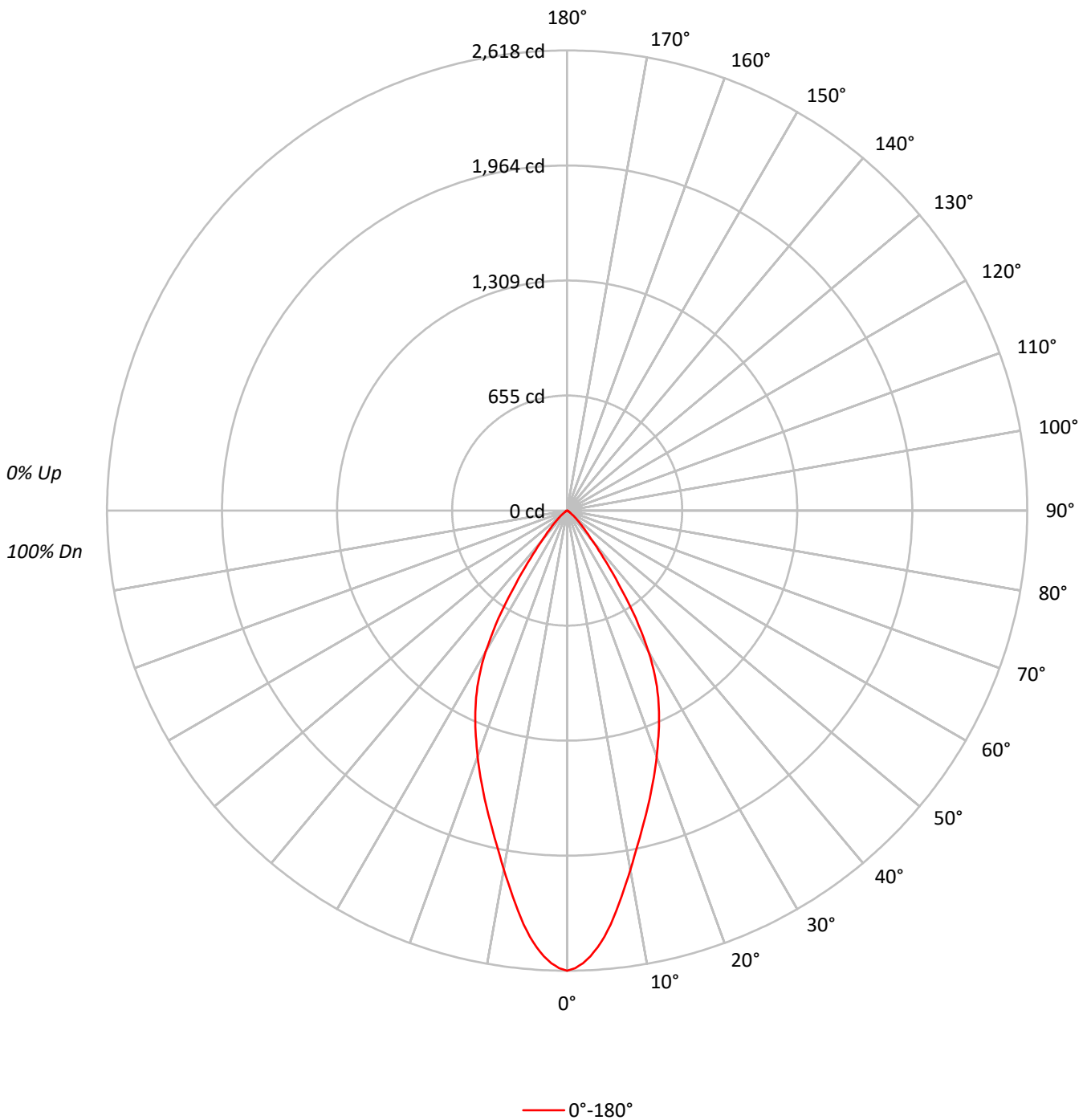
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244346

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244346

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0H

**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°	80729
5°	75299
10°	64907
15°	56174
20°	48865
25°	41996
30°	32997
35°	19251
40°	8884
45°	4596
50°	2307
55°	1124
60°	574
65°	336
70°	153
75°	143
80°	107
85°	0



TEST NUMBER: P244346

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.1	12.8
10°-20°	492.0	28.7
20°-30°	559.4	32.6
30°-40°	328.5	19.2
40°-50°	88.2	5.1
50°-60°	20.9	1.2
60°-70°	4.8	0.3
70°-80°	1.1	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°	1271.5	74.1
0°-40°	1600.0	93.3
0°-60°	1709.1	99.7
0°-90°	1715.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2618	
5°	2433	220
15°	1760	492
25°	1234	559
35°	511	329
45°	105	88
55°	21	21
65°	5	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P244346

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2618.0
1°	2603.5
2°	2576.8
3°	2539.2
4°	2490.5
5°	2432.6
6°	2367.2
7°	2293.0
8°	2218.9
9°	2144.2
10°	2072.9
11°	2003.4
12°	1938.0
13°	1877.2
14°	1816.4
15°	1759.6
16°	1704.0
17°	1649.0
18°	1595.7
19°	1541.8
20°	1489.1
21°	1436.4
22°	1386.0
23°	1336.2
24°	1285.2
25°	1234.3
26°	1181.6
27°	1124.2
28°	1064.0
29°	998.0
30°	926.7
32.5°	726.9
35°	511.4
37.5°	337.1
40°	220.7
42.5°	152.3
45°	105.4
47.5°	72.4
50°	48.1
52.5°	31.3
55°	20.9
57.5°	13.9
60°	9.3
62.5°	6.4
65°	4.6



TEST NUMBER: P244346

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0H

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	2.9
70°	1.7
72.5°	1.2
75°	1.2
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)