

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: P244028

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20835 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.1 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

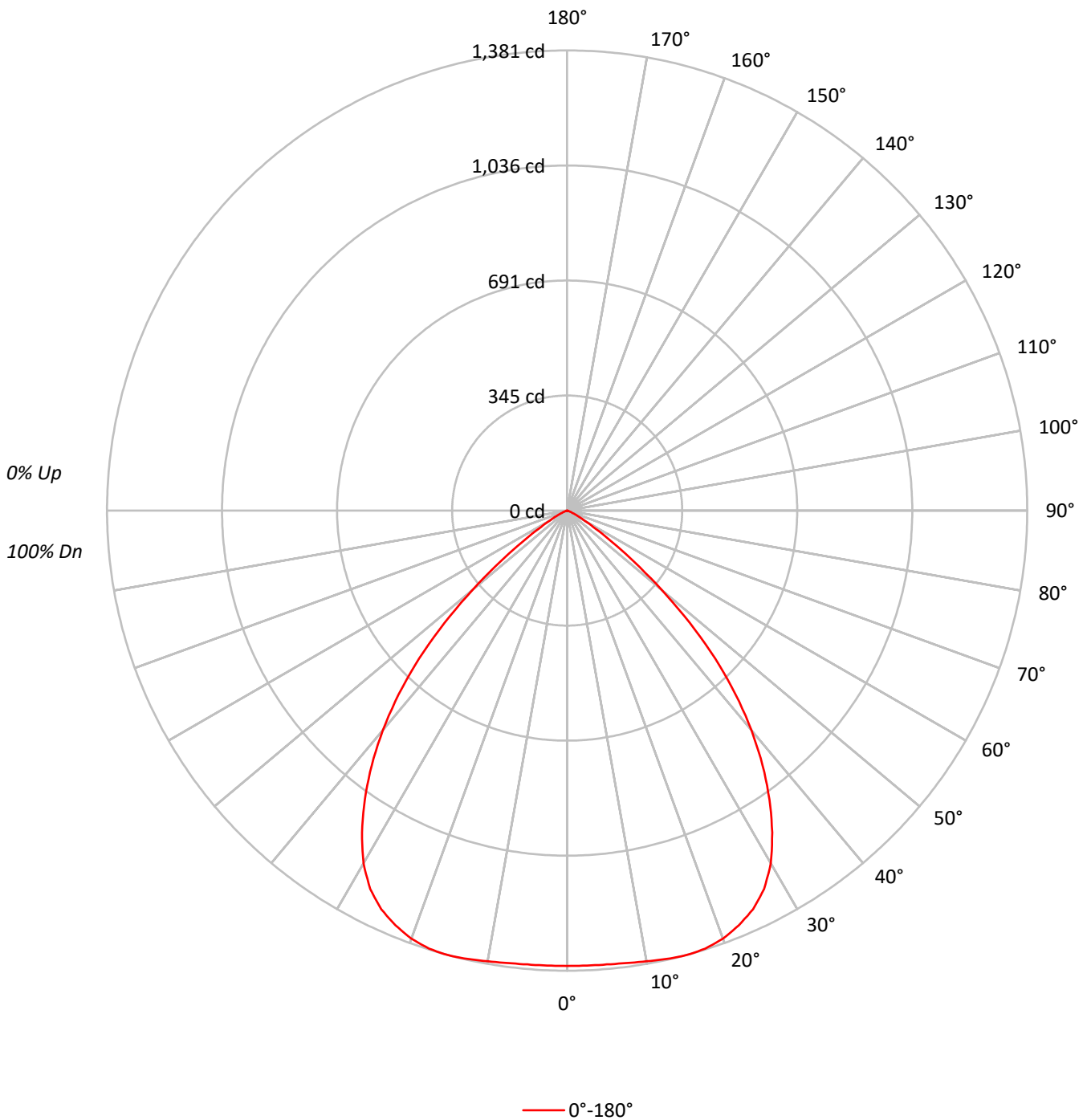
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244028

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBSOLI

### Luminous Intensity Polar Plot





TEST NUMBER: P244028

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBSOLI

**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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88		91	88	86		88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	77		82	78	75	74
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	63	84	75	68	63	73	67	63		71	66	62		69	65	61	60
6	80	70	62	57	79	69	62	57	67	61	56		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	71	59	52	47	69	58	52	47	57	51	47		56	51	46		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	44	39	50	43	39		49	43	39		48	43	39	37

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

	0°
0°	42141
5°	42324
10°	43010
15°	44097
20°	44868
25°	44919
30°	43529
35°	39854
40°	34634
45°	27408
50°	17774
55°	8881
60°	3731
65°	1642
70°	505
75°	250
80°	249
85°	248



TEST NUMBER: P244028

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBS0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	5.3
10°-20°	390.3	15.9
20°-30°	604.7	24.7
30°-40°	656.7	26.8
40°-50°	477.2	19.5
50°-60°	162.2	6.6
60°-70°	25.9	1.1
70°-80°	2.8	0.1
80°-90°	0.6	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°	1125.7	45.9
0°-40°	1782.4	72.7
0°-60°	2421.9	98.8
0°-90°	2451.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1367	
5°	1367	131
15°	1381	390
25°	1320	605
35°	1059	657
45°	628	477
55°	165	162
65°	22	26
75°	2	3
85°	1	1
90°	0	



TEST NUMBER: P244028

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBSOLI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1366.6
2.5°	1366.6
5°	1367.3
7.5°	1369.4
10°	1373.6
12.5°	1378.5
15°	1381.3
17.5°	1378.5
20°	1367.3
22.5°	1346.9
25°	1320.2
27.5°	1280.1
30°	1222.5
32.5°	1145.8
35°	1058.7
37.5°	963.8
40°	860.4
42.5°	748.7
45°	628.5
47.5°	499.1
50°	370.5
52.5°	253.8
55°	165.2
57.5°	100.5
60°	60.5
62.5°	37.3
65°	22.5
67.5°	12.7
70°	5.6
72.5°	3.5
75°	2.1
77.5°	1.4
80°	1.4
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0

(END OF REPORT)