

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: P246548

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20835 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2224.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

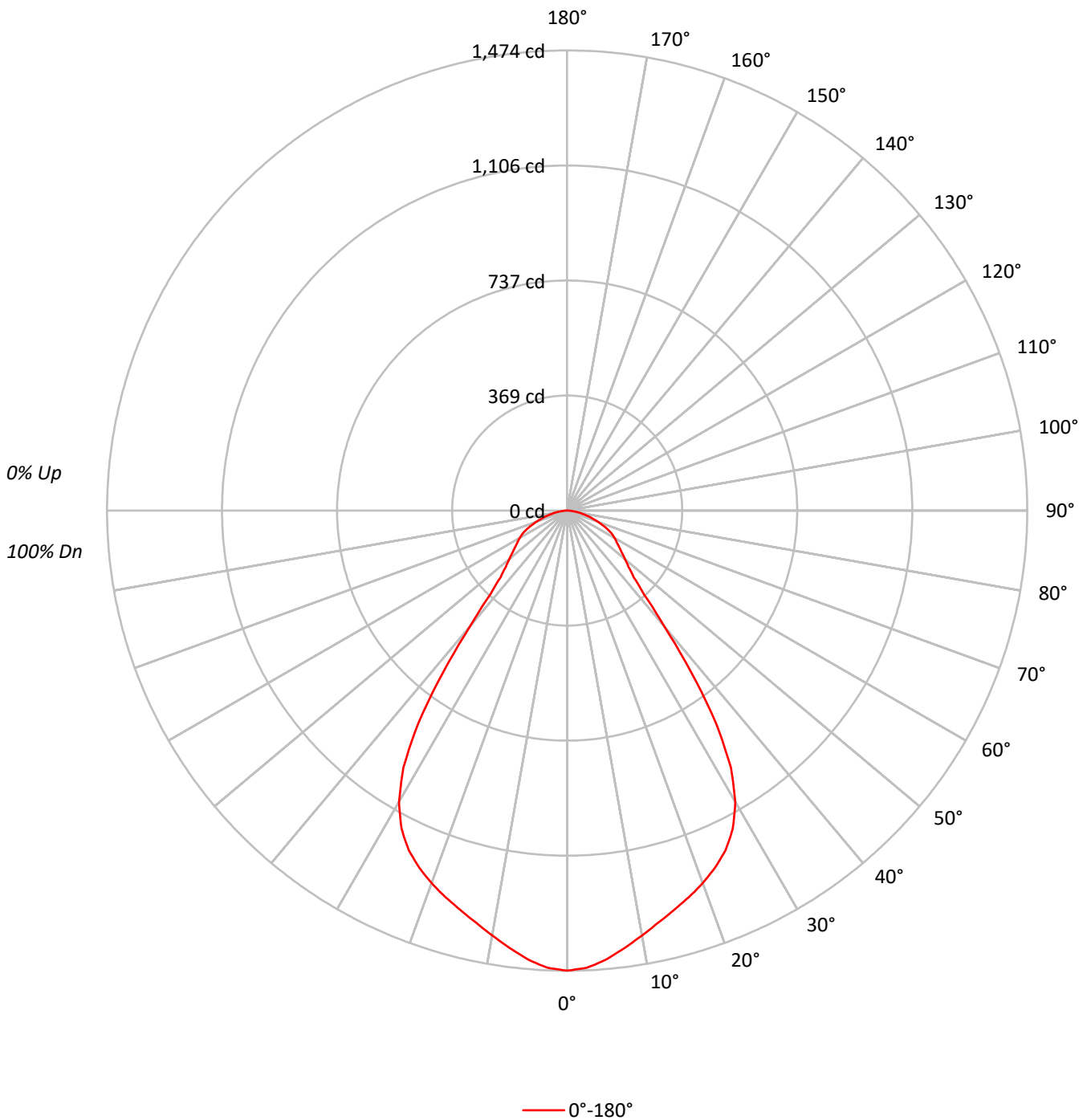
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246548

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246548

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBW0MW

**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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

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

	0°
0°	45440
5°	44673
10°	43270
15°	42268
20°	41666
25°	40849
30°	38352
35°	31309
40°	19394
45°	13135
50°	11571
55°	10924
60°	10830
65°	10500
70°	9413
75°	8149
80°	6890
85°	5484



TEST NUMBER: P246548

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	6.1
10°-20°	373.9	16.8
20°-30°	548.4	24.7
30°-40°	501.3	22.5
40°-50°	248.2	11.2
50°-60°	183.5	8.3
60°-70°	141.0	6.3
70°-80°	73.5	3.3
80°-90°	18.3	0.8
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°	1058.1	47.6
0°-40°	1559.4	70.1
0°-60°	1991.1	89.5
0°-90°	2224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1474	
5°	1443	136
15°	1324	374
25°	1201	548
35°	832	501
45°	301	248
55°	203	184
65°	144	141
75°	68	74
85°	16	18
90°	0	



TEST NUMBER: P246548

CATALOG NUMBER: LSR8B20D010 EC8B20835 8LBW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1473.6
2.5°	1465.8
5°	1443.2
7.5°	1412.9
10°	1381.9
12.5°	1351.5
15°	1324.0
17.5°	1297.9
20°	1269.7
22.5°	1238.0
25°	1200.6
27.5°	1149.1
30°	1077.1
32.5°	976.3
35°	831.7
37.5°	652.5
40°	481.8
42.5°	364.7
45°	301.2
47.5°	266.6
50°	241.2
52.5°	220.8
55°	203.2
57.5°	188.3
60°	175.6
62.5°	162.2
65°	143.9
67.5°	124.1
70°	104.4
72.5°	86.1
75°	68.4
77.5°	52.9
80°	38.8
82.5°	26.8
85°	15.5
87.5°	5.6
90°	0.0

(END OF REPORT)