

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: P246362

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20935 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1110.0 lumens  
Efficiency: 58.8%  
Efficacy: 52.1 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

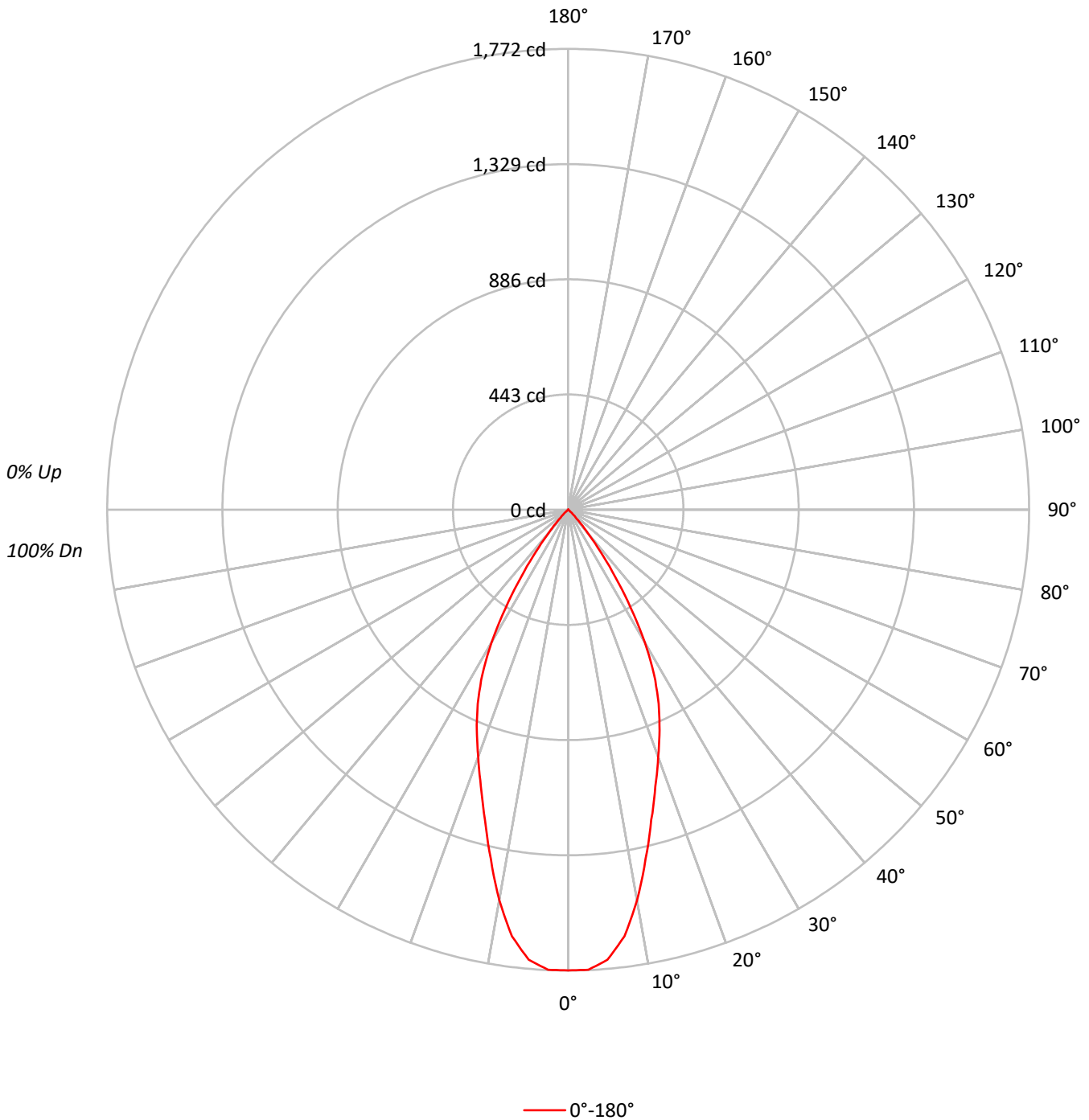
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246362

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246362

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0B

**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	70	70	70	70	68	68	68	68	65	65	65	63	63	63	60	60	60	59
1	67	66	64	63	66	64	63	62	62	61	60	60	59	58	58	57	57	56
2	64	61	59	57	63	60	58	57	58	57	55	57	55	54	55	54	53	52
3	61	58	55	53	60	57	54	52	55	53	52	54	52	51	53	51	50	49
4	58	54	51	49	57	54	51	49	52	50	48	51	49	48	50	48	47	46
5	56	51	48	46	55	51	48	45	50	47	45	49	46	45	48	46	44	43
6	53	48	45	43	52	48	45	43	47	44	42	46	44	42	45	43	42	41
7	51	46	42	40	50	45	42	40	45	42	40	44	41	40	43	41	39	39
8	49	43	40	38	48	43	40	38	42	40	38	42	39	37	41	39	37	37
9	46	41	38	36	46	41	38	36	40	38	36	40	37	35	39	37	35	35
10	44	39	36	34	44	39	36	34	38	36	34	38	35	34	38	35	34	33

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

	0°
0°	54633
5°	53770
10°	47766
15°	39413
20°	33186
25°	27992
30°	20965
35°	11858
40°	4682
45°	1252
50°	254
55°	0
60°	37
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P246362

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0B

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	158.9	14.3	8.4	0°	1772	
10°-20°	346.5	31.2	18.4	5°	1737	159
20°-30°	371.1	33.4	19.7	15°	1235	346
30°-40°	201.1	18.1	10.7	25°	823	371
40°-50°	31.2	2.8	1.7	35°	315	201
50°-60°	0.9	0.1	0.0	45°	29	31
60°-70°	0.2	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	876.5	79.0	46.5	165°	0	0
0°-40°	1077.6	97.1	57.1	175°	0	0
0°-60°	1109.8	100.0	58.8	180°	0	0
0°-90°	1110.0	100.0	58.8			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	1110.0	100.0	58.8			



TEST NUMBER: P246362

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1771.7
2.5°	1770.6
5°	1737.1
7.5°	1654.2
10°	1525.5
12.5°	1375.7
15°	1234.6
17.5°	1115.4
20°	1011.3
22.5°	917.9
25°	822.7
27.5°	715.2
30°	588.8
32.5°	449.0
35°	315.0
37.5°	201.6
40°	116.3
42.5°	62.3
45°	28.7
47.5°	15.3
50°	5.3
52.5°	0.6
55°	0.0
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P246362

CATALOG NUMBER: LSR8B20D010 EC8B20935 8LBN0B

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)