

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: P246333

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246333  
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: LSR8B30D010 EC8B30835 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1779.0 lumens  
Efficiency: 94.3%  
Efficacy: 65.6 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

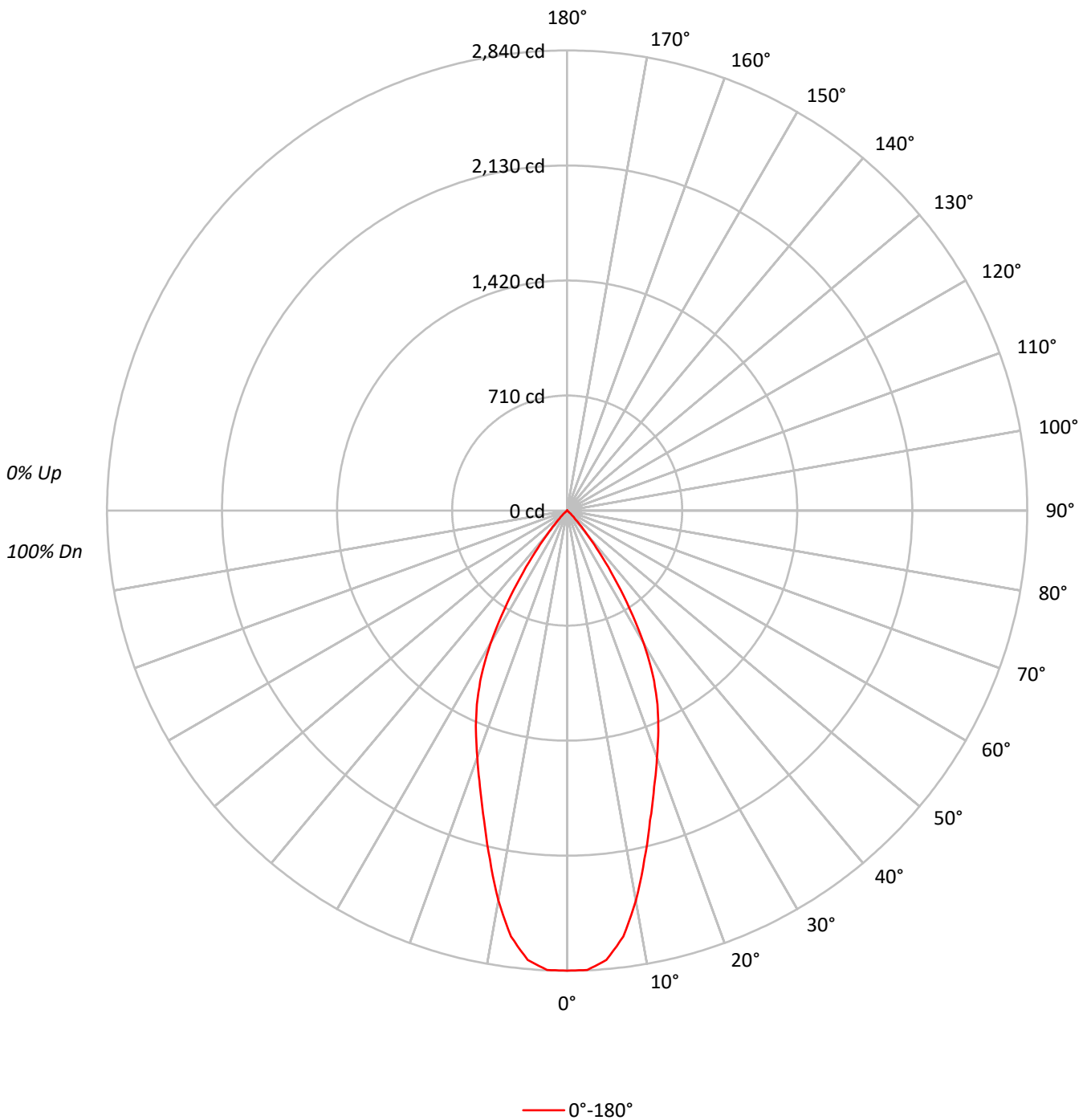
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	110	110	110	110	105	105	105	100	100	100	96	96	96	94
1	107	105	103	101	105	103	101	99	99	98	96	96	94	93	92	92	91	89
2	103	98	95	92	101	97	94	91	94	91	89	91	89	87	88	87	85	84
3	98	92	88	85	96	91	87	84	89	85	83	86	84	81	84	82	80	79
4	93	87	82	78	92	86	81	78	84	80	77	82	79	76	80	78	75	74
5	89	82	77	73	88	81	76	73	79	75	72	78	74	72	76	73	71	70
6	85	77	72	68	84	77	72	68	75	71	68	74	70	67	73	70	67	66
7	81	73	68	64	80	73	68	64	72	67	64	70	66	64	69	66	63	62
8	78	70	64	61	77	69	64	61	68	64	60	67	63	60	66	63	60	59
9	74	66	61	57	73	66	61	57	65	60	57	64	60	57	63	59	57	56
10	71	63	58	54	70	62	58	54	62	57	54	61	57	54	60	57	54	53

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

	0°
0°	87563
5°	86179
10°	76558
15°	63171
20°	53190
25°	44864
30°	33602
35°	19007
40°	7503
45°	2006
50°	403
55°	0
60°	56
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	254.7	14.3	13.5	0°	2840	
10°-20°	555.3	31.2	29.4	5°	2784	255
20°-30°	594.8	33.4	31.5	15°	1979	555
30°-40°	322.3	18.1	17.1	25°	1319	595
40°-50°	50.1	2.8	2.7	35°	505	322
50°-60°	1.4	0.1	0.1	45°	46	50
60°-70°	0.3	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°	1404.8	79.0	74.4	165°	0	0
0°-40°	1727.2	97.1	91.5	175°	0	0
0°-60°	1778.6	100.0	94.3	180°	0	0
0°-90°	1779.0	100.0	94.3			
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°	1779.0	100.0	94.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2839.6
2.5°	2837.7
5°	2784.1
7.5°	2651.3
10°	2445.0
12.5°	2204.8
15°	1978.8
17.5°	1787.6
20°	1620.9
22.5°	1471.1
25°	1318.6
27.5°	1146.2
30°	943.7
32.5°	719.6
35°	504.9
37.5°	323.1
40°	186.4
42.5°	99.8
45°	46.0
47.5°	24.5
50°	8.4
52.5°	0.9
55°	0.0
57.5°	0.9
60°	0.9
62.5°	0.0
65°	0.0
67.5°	0.9
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



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**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)