

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: P246321

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246321  
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 EC8B30827 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1669.0 lumens  
Efficiency: 88.4%  
Efficacy: 61.6 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

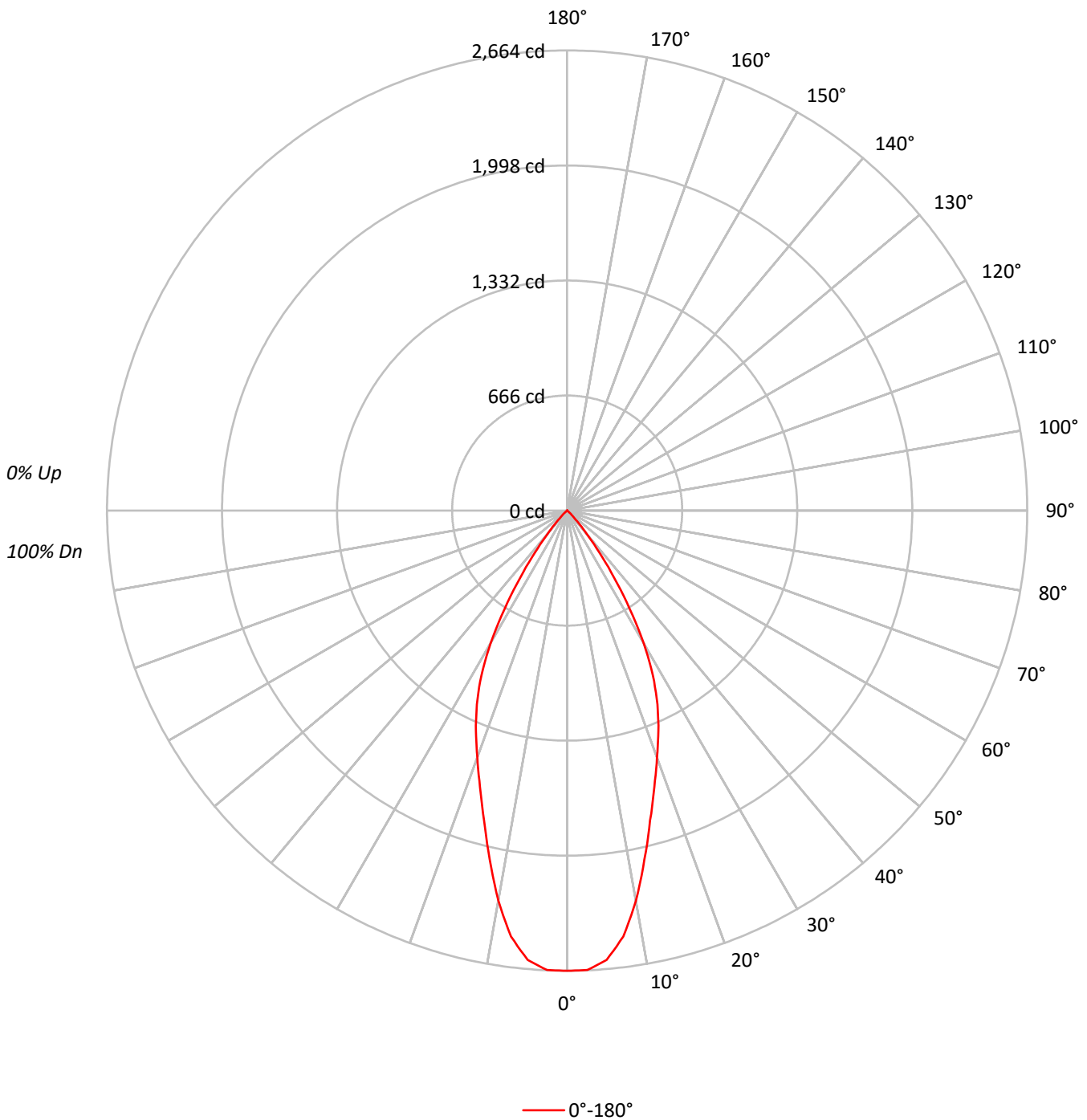
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	103	103	103	103	98	98	98		94	94	94		90	90	90	88
1	101	98	96	95	99	97	95	93	93	92	90		90	89	88		87	86	85	83
2	96	92	89	86	94	91	88	85	88	85	83		85	83	82		83	81	80	78
3	92	87	83	79	90	85	82	79	83	80	77		81	78	76		79	77	75	74
4	88	82	77	74	86	81	76	73	79	75	72		77	74	71		75	73	71	69
5	84	77	72	69	82	76	72	68	75	71	68		73	70	67		72	69	67	65
6	80	73	68	64	79	72	67	64	71	67	64		69	66	63		68	65	63	62
7	76	69	64	60	75	68	64	60	67	63	60		66	62	60		65	62	59	58
8	73	65	60	57	72	65	60	57	64	60	57		63	59	56		62	59	56	55
9	70	62	57	54	69	62	57	54	61	57	54		60	56	53		59	56	53	52
10	67	59	54	51	66	59	54	51	58	54	51		57	53	51		57	53	51	49

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

	0°
0°	82148
5°	80849
10°	71823
15°	59264
20°	49902
25°	42091
30°	31526
35°	17828
40°	7040
45°	1884
50°	379
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°	239.0	14.3	12.7	0°	2664	
10°-20°	520.9	31.2	27.6	5°	2612	239
20°-30°	558.1	33.4	29.6	15°	1856	521
30°-40°	302.4	18.1	16.0	25°	1237	558
40°-50°	47.0	2.8	2.5	35°	474	302
50°-60°	1.4	0.1	0.1	45°	43	47
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°	1318.0	79.0	69.8	165°	0	0
0°-40°	1620.4	97.1	85.9	175°	0	0
0°-60°	1668.7	100.0	88.4	180°	0	0
0°-90°	1669.0	100.0	88.4			
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°	1669.0	100.0	88.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2664.0
2.5°	2662.2
5°	2611.9
7.5°	2487.3
10°	2293.8
12.5°	2068.5
15°	1856.4
17.5°	1677.1
20°	1520.7
22.5°	1380.2
25°	1237.1
27.5°	1075.4
30°	885.4
32.5°	675.1
35°	473.6
37.5°	303.2
40°	174.9
42.5°	93.6
45°	43.2
47.5°	22.9
50°	7.9
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)