

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: P246327

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246327  
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 EC8B30830 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1711.0 lumens  
Efficiency: 90.7%  
Efficacy: 63.1 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

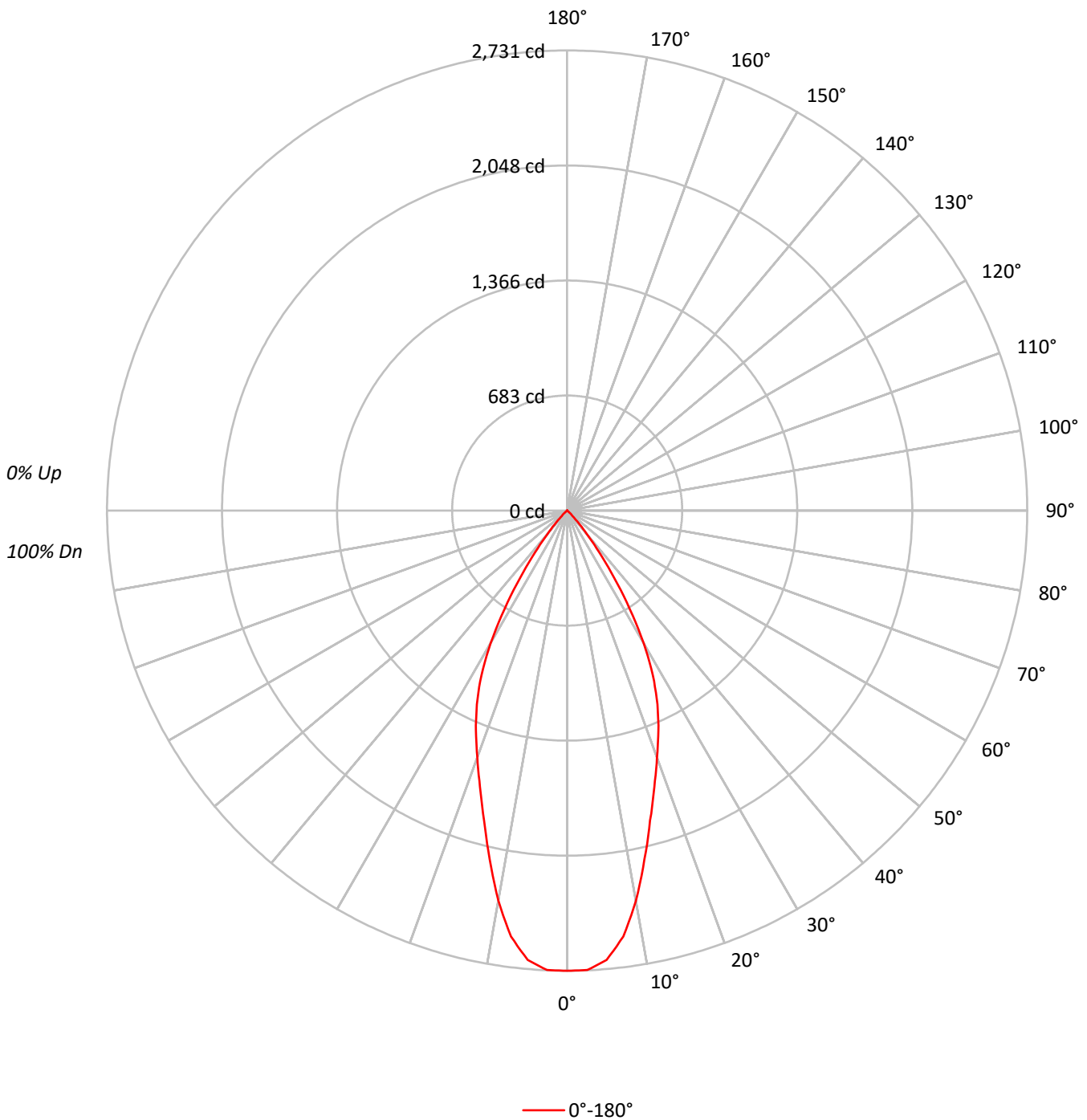
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	105	105	105	105	101	101	101		96	96	96		93	93	93	91
1	103	101	99	97	101	99	97	95	95	94	93		92	91	90		89	88	87	86
2	99	95	91	88	97	93	90	87	90	88	85		87	85	84		85	83	82	80
3	94	89	85	81	92	88	84	81	85	82	79		83	80	78		81	79	77	76
4	90	84	79	75	88	83	78	75	81	77	74		79	76	73		77	75	72	71
5	86	79	74	70	84	78	73	70	76	72	69		75	72	69		74	71	68	67
6	82	74	69	66	81	74	69	66	72	68	65		71	68	65		70	67	64	63
7	78	70	65	62	77	70	65	62	69	65	61		68	64	61		67	63	61	60
8	75	67	62	58	74	66	62	58	65	61	58		64	61	58		64	60	58	56
9	72	63	59	55	71	63	58	55	62	58	55		61	58	55		61	57	55	53
10	69	60	56	52	68	60	55	52	59	55	52		59	55	52		58	54	52	51

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

	0°
0°	84214
5°	82883
10°	73630
15°	60755
20°	51156
25°	43149
30°	32320
35°	18280
40°	7218
45°	1932
50°	389
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°	245.0	14.3	13.0	0°	2731	
10°-20°	534.0	31.2	28.3	5°	2678	245
20°-30°	572.1	33.4	30.3	15°	1903	534
30°-40°	310.0	18.1	16.4	25°	1268	572
40°-50°	48.1	2.8	2.6	35°	486	310
50°-60°	1.4	0.1	0.1	45°	44	48
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°	1351.1	79.0	71.6	165°	0	0
0°-40°	1661.2	97.1	88.0	175°	0	0
0°-60°	1710.7	100.0	90.7	180°	0	0
0°-90°	1711.0	100.0	90.7			
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°	1711.0	100.0	90.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2731.0
2.5°	2729.2
5°	2677.6
7.5°	2549.9
10°	2351.5
12.5°	2120.5
15°	1903.1
17.5°	1719.3
20°	1558.9
22.5°	1414.9
25°	1268.2
27.5°	1102.4
30°	907.7
32.5°	692.1
35°	485.6
37.5°	310.8
40°	179.3
42.5°	96.0
45°	44.3
47.5°	23.5
50°	8.1
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)