

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: P245661

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B309727 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 1743.0 lumens  
Efficiency: 79.8%  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

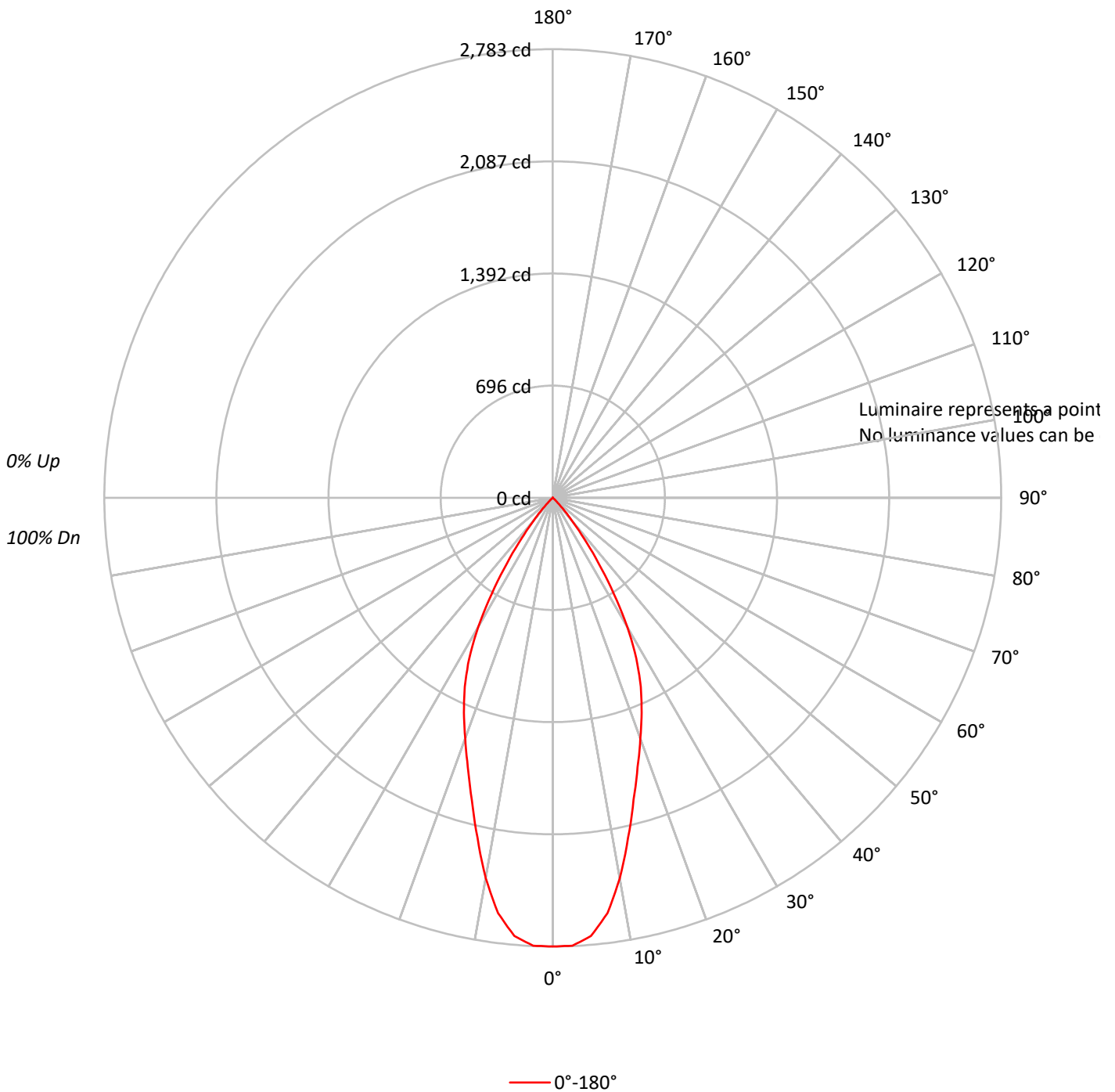
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	95	95	95	93	93	93	93	89	89	89		85	85	85		81	81	81	80
1	91	89	87	85	89	87	86	84	84	83	81		81	80	79		78	78	77	75
2	87	83	80	78	85	82	79	77	79	77	75		77	75	74		75	73	72	71
3	83	78	75	72	81	77	74	71	75	72	70		73	71	69		71	69	68	67
4	79	74	70	66	78	73	69	66	71	68	65		69	67	65		68	66	64	63
5	76	69	65	62	74	69	65	62	67	64	61		66	63	61		65	62	60	59
6	72	66	61	58	71	65	61	58	64	60	57		63	60	57		62	59	57	56
7	69	62	58	55	68	62	57	54	61	57	54		60	56	54		59	56	54	52
8	66	59	54	51	65	58	54	51	58	54	51		57	53	51		56	53	51	50
9	63	56	52	49	62	56	51	49	55	51	48		54	51	48		53	50	48	47
10	60	53	49	46	60	53	49	46	52	48	46		52	48	46		51	48	46	45

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	249.6	14.3	11.4	0°	2783	
10°-20°	544.1	31.2	24.9	5°	2728	250
20°-30°	582.8	33.4	26.7	15°	1939	544
30°-40°	315.8	18.1	14.5	25°	1292	583
40°-50°	49.1	2.8	2.3	35°	494	316
50°-60°	1.3	0.1	0.1	45°	45	49
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°	1376.5	79.0	63.1	165°	0	0
0°-40°	1692.3	97.1	77.5	175°	0	0
0°-60°	1742.7	100.0	79.8	180°	0	0
0°-90°	1743.0	100.0	79.8			
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°	1743.0	100.0	79.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2782.8
2.5°	2780.6
5°	2727.8
7.5°	2597.8
10°	2396.1
12.5°	2159.9
15°	1939.0
17.5°	1751.6
20°	1588.0
22.5°	1441.3
25°	1292.2
27.5°	1123.0
30°	924.4
32.5°	705.1
35°	494.5
37.5°	316.7
40°	182.6
42.5°	97.3
45°	45.4
47.5°	24.8
50°	7.9
52.5°	0.8
55°	0.0
57.5°	0.8
60°	0.8
62.5°	0.0
65°	0.0
67.5°	0.8
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)