

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: P245667

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245667  
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 EC8B309730 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 1844.0 lumens  
Efficiency: 84.5%  
Efficacy: 68.0 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

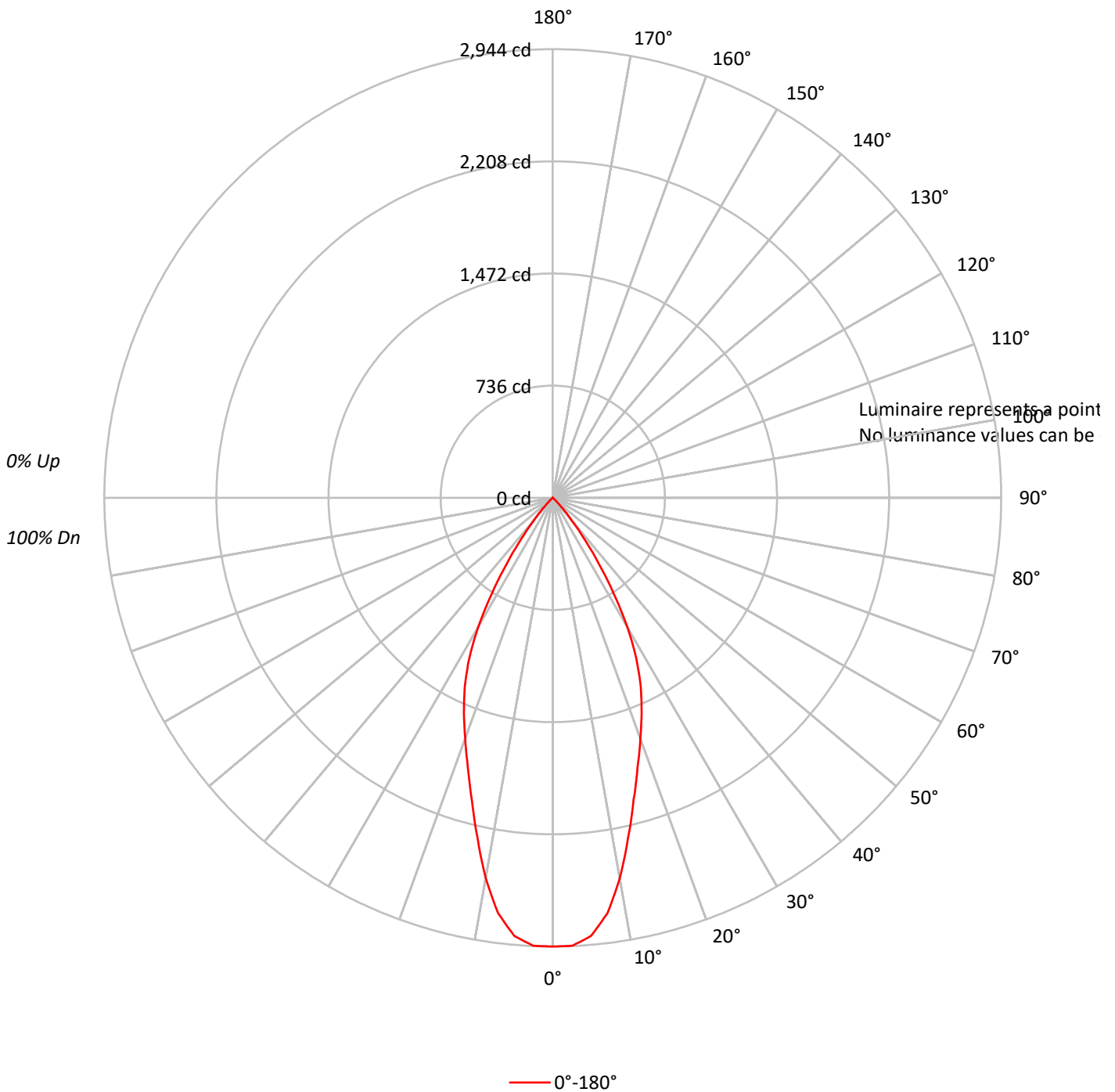
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	101	101	101	98	98	98	98	94	94	94		90	90	90		86	86	86	84
1	96	94	92	90	94	92	90	89	89	87	86		86	85	84		83	82	81	80
2	92	88	85	82	90	87	84	81	84	82	80		81	80	78		79	78	76	75
3	88	83	79	76	86	82	78	75	79	76	74		77	75	73		76	73	72	70
4	84	78	74	70	82	77	73	70	75	72	69		74	71	68		72	70	67	66
5	80	73	69	66	79	73	68	65	71	67	65		70	67	64		69	66	64	62
6	76	69	65	61	75	69	64	61	68	64	61		66	63	60		65	62	60	59
7	73	66	61	58	72	65	61	58	64	60	57		63	60	57		62	59	57	56
8	70	62	58	54	69	62	57	54	61	57	54		60	56	54		59	56	54	53
9	67	59	55	51	66	59	54	51	58	54	51		57	54	51		57	53	51	50
10	64	56	52	49	63	56	52	49	55	51	49		55	51	48		54	51	48	47

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	264.1	14.3	12.1	0°	2944	
10°-20°	575.6	31.2	26.4	5°	2886	264
20°-30°	616.6	33.4	28.2	15°	2051	576
30°-40°	334.1	18.1	15.3	25°	1367	617
40°-50°	52.0	2.8	2.4	35°	523	334
50°-60°	1.4	0.1	0.1	45°	48	52
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°	1456.2	79.0	66.7	165°	0	0
0°-40°	1790.3	97.1	82.0	175°	0	0
0°-60°	1843.7	100.0	84.5	180°	0	0
0°-90°	1844.0	100.0	84.5			
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°	1844.0	100.0	84.5			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2944.1
2.5°	2941.7
5°	2885.9
7.5°	2748.3
10°	2534.9
12.5°	2285.1
15°	2051.4
17.5°	1853.1
20°	1680.1
22.5°	1524.8
25°	1367.1
27.5°	1188.1
30°	978.0
32.5°	745.9
35°	523.2
37.5°	335.1
40°	193.2
42.5°	102.9
45°	48.1
47.5°	26.2
50°	8.4
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)