

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: P246363

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246363  
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 EC8B30935 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1517.0 lumens  
Efficiency: 80.4%  
Efficacy: 56.0 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

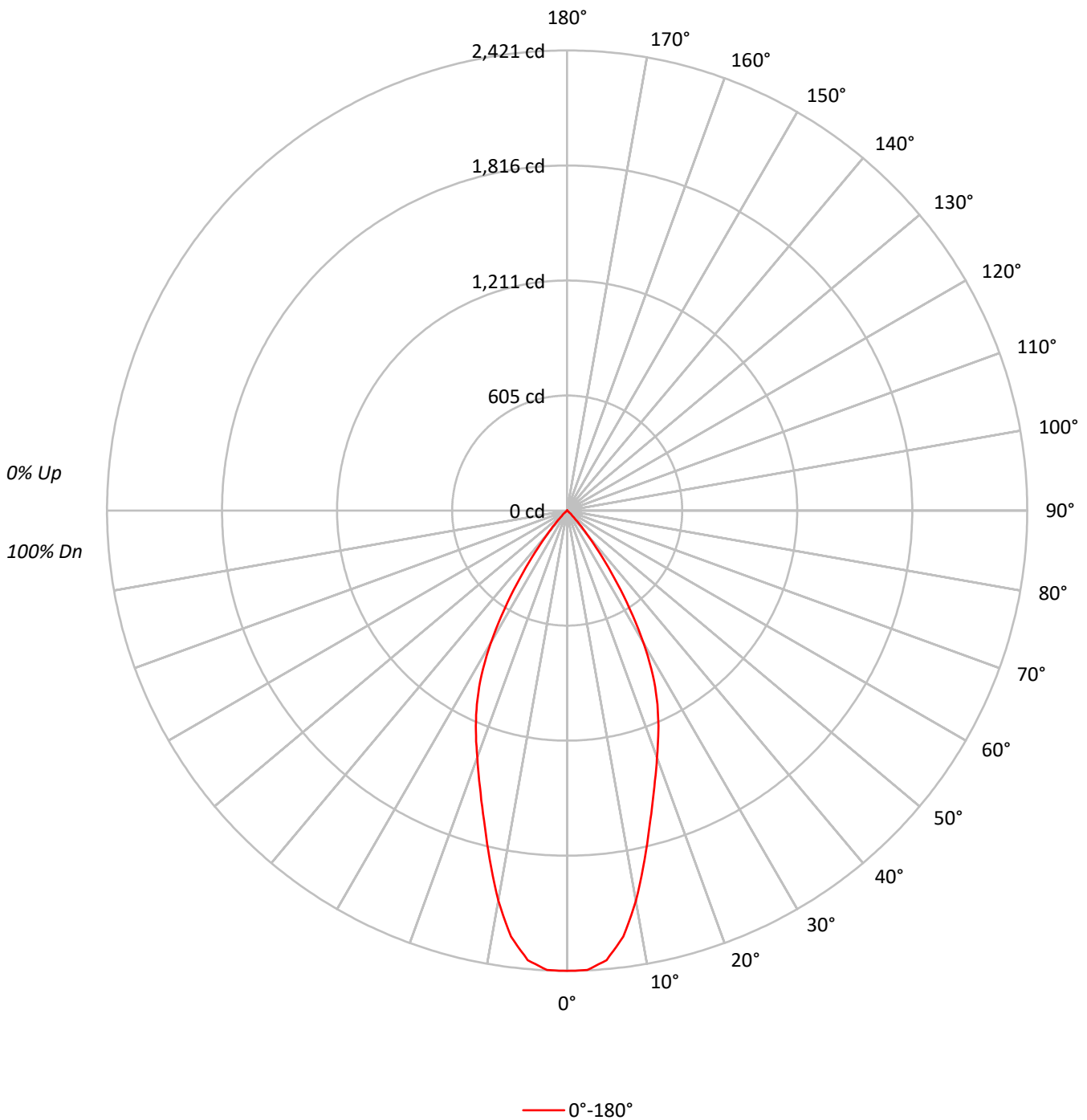
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	96	96	96	96	93	93	93	93	89	89	89	86	86	86	82	82	82	80				
1	92	90	88	86	90	88	86	85	85	83	82	82	81	80	79	78	77	76				
2	88	84	81	78	86	82	80	77	80	78	76	78	76	74	75	74	73	71				
3	84	79	75	72	82	78	74	72	76	73	70	74	71	69	72	70	68	67				
4	80	74	70	67	78	73	69	66	72	68	66	70	67	65	68	66	64	63				
5	76	70	66	62	75	69	65	62	68	64	62	66	63	61	65	63	60	59				
6	73	66	62	58	72	65	61	58	64	61	58	63	60	57	62	59	57	56				
7	69	63	58	55	68	62	58	55	61	57	54	60	57	54	59	56	54	53				
8	66	59	55	52	65	59	55	52	58	54	51	57	54	51	56	53	51	50				
9	63	56	52	49	63	56	52	49	55	51	49	54	51	49	54	51	48	47				
10	61	54	49	46	60	53	49	46	53	49	46	52	49	46	51	48	46	45				

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

	0°
0°	74667
5°	73485
10°	65282
15°	53866
20°	45357
25°	38257
30°	28656
35°	16206
40°	6400
45°	1714
50°	345
55°	0
60°	49
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°	217.2	14.3	11.5	0°	2421	
10°-20°	473.5	31.2	25.1	5°	2374	217
20°-30°	507.2	33.4	26.9	15°	1687	473
30°-40°	274.9	18.1	14.6	25°	1124	507
40°-50°	42.7	2.8	2.3	35°	430	275
50°-60°	1.2	0.1	0.1	45°	39	43
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°	1197.9	79.0	63.5	165°	0	0
0°-40°	1472.8	97.1	78.1	175°	0	0
0°-60°	1516.7	100.0	80.4	180°	0	0
0°-90°	1517.0	100.0	80.4			
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°	1517.0	100.0	80.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2421.4
2.5°	2419.8
5°	2374.0
7.5°	2260.8
10°	2084.9
12.5°	1880.1
15°	1687.3
17.5°	1524.3
20°	1382.2
22.5°	1254.5
25°	1124.4
27.5°	977.4
30°	804.8
32.5°	613.6
35°	430.5
37.5°	275.6
40°	159.0
42.5°	85.1
45°	39.3
47.5°	20.9
50°	7.2
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)