

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: P245613

Luminaire Tested: **LSR8B30D010 EC8B30835 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245613  
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 EC8B30835 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 2503.0 lumens  
Efficiency: 114.7%  
Efficacy: 92.4 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

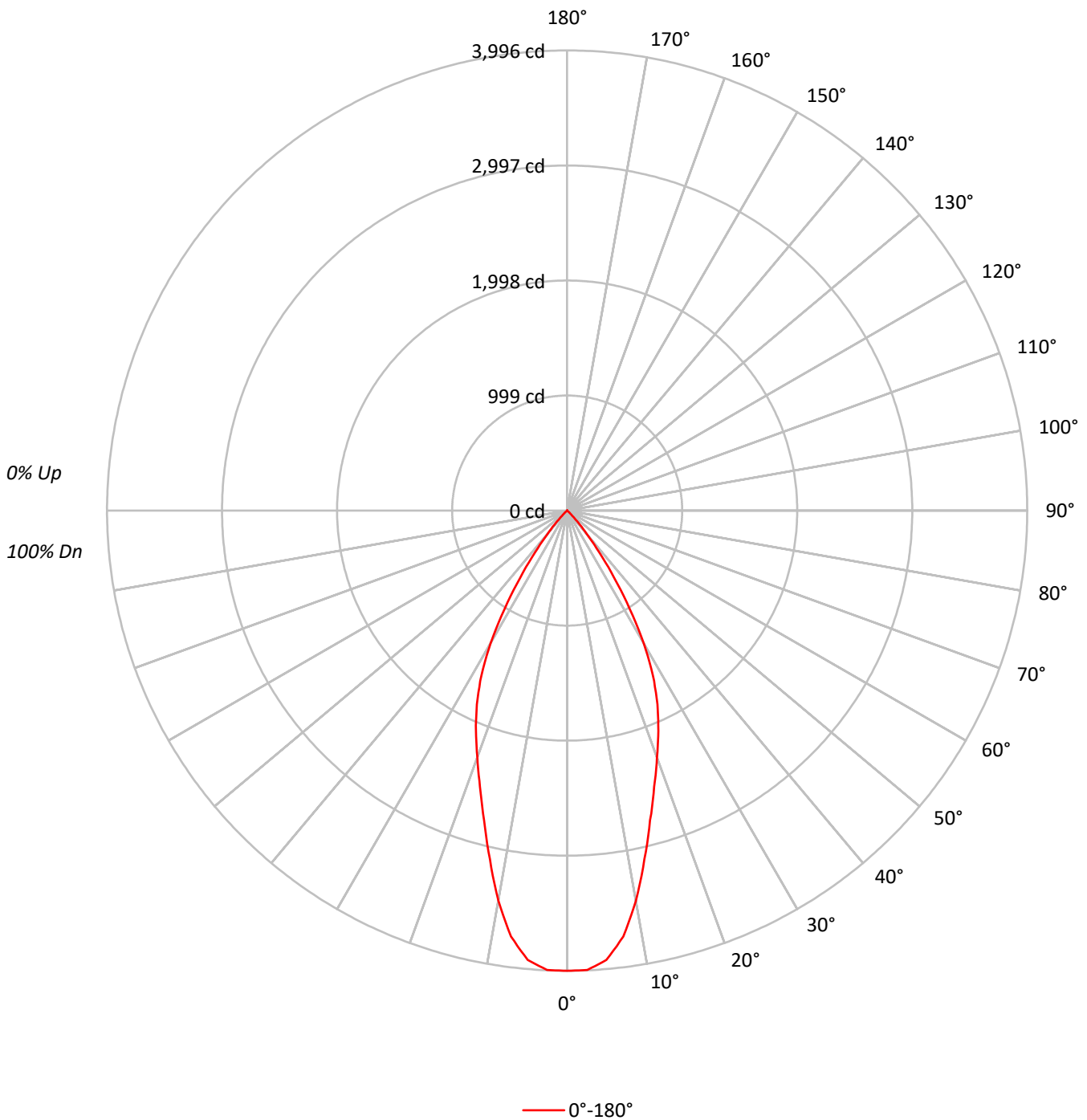
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	136	136	136	136	133	133	133	133	127	127	127	122	122	122	117	117	117	115			
1	131	128	125	123	128	125	123	121	121	119	117	116	115	113	112	111	110	108			
2	125	120	115	112	122	118	114	110	114	111	108	111	108	106	107	105	104	102			
3	119	112	107	103	117	111	106	102	108	104	100	105	102	99	103	100	97	96			
4	114	106	100	95	112	104	99	95	102	97	94	100	96	93	98	94	92	90			
5	109	100	94	89	107	99	93	89	97	92	88	95	90	87	93	89	86	85			
6	104	94	88	83	102	93	87	83	92	86	82	90	85	82	89	85	81	80			
7	99	89	83	78	98	88	82	78	87	82	78	86	81	77	84	80	77	75			
8	95	85	78	74	93	84	78	74	83	77	73	82	77	73	80	76	73	71			
9	91	80	74	70	89	80	74	70	79	73	69	78	73	69	77	72	69	68			
10	87	76	70	66	86	76	70	66	75	70	66	74	69	66	73	69	65	64			

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

	0°
0°	123228
5°	121257
10°	107738
15°	88893
20°	74835
25°	63135
30°	47268
35°	26735
40°	10555
45°	2843
50°	547
55°	0
60°	68
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°	358.5	14.3	16.4	0°	3996	
10°-20°	781.3	31.2	35.8	5°	3917	358
20°-30°	836.9	33.4	38.3	15°	2784	781
30°-40°	453.5	18.1	20.8	25°	1856	837
40°-50°	70.6	2.8	3.2	35°	710	454
50°-60°	1.8	0.1	0.1	45°	65	71
60°-70°	0.4	0.0	0.0	55°	0	2
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°	1976.6	79.0	90.5	165°	0	0
0°-40°	2430.1	97.1	111.3	175°	0	0
0°-60°	2502.6	100.0	114.6	180°	0	0
0°-90°	2503.0	100.0	114.7			
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°	2503.0	100.0	114.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3996.2
2.5°	3993.0
5°	3917.3
7.5°	3730.5
10°	3440.8
12.5°	3101.7
15°	2784.5
17.5°	2515.3
20°	2280.5
22.5°	2069.7
25°	1855.6
27.5°	1612.7
30°	1327.5
32.5°	1012.5
35°	710.2
37.5°	454.8
40°	262.2
42.5°	139.7
45°	65.2
47.5°	35.6
50°	11.4
52.5°	1.1
55°	0.0
57.5°	1.1
60°	1.1
62.5°	0.0
65°	0.0
67.5°	1.1
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)