

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: P246375

Luminaire Tested: **LD8B30D010 ER8B30950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246375  
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: LD8B30D010 ER8B30950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1640.1 lumens  
Efficiency: 86.9%  
Efficacy: 60.5 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

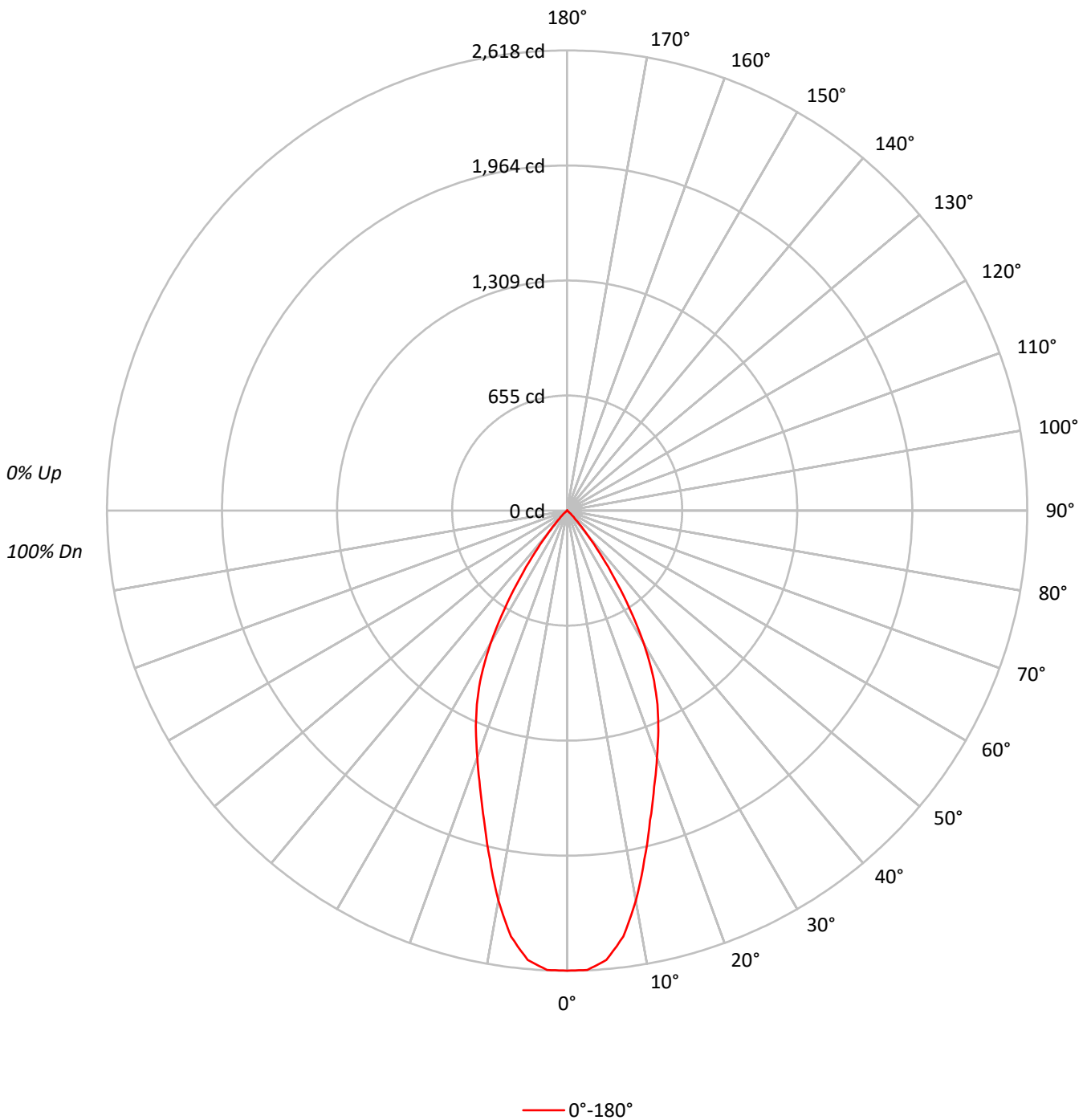
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	103	101	101	101	101	97	97	97		92	92	92		89	89	89	87
1	99	97	95	93	97	95	93	91	91	90	89		88	87	86		85	84	84	82
2	95	91	87	85	93	89	86	84	86	84	82		84	82	80		81	80	79	77
3	90	85	81	78	89	84	80	77	82	79	76		80	77	75		78	76	74	72
4	86	80	76	72	85	79	75	72	77	74	71		76	73	70		74	72	69	68
5	82	76	71	67	81	75	70	67	73	69	67		72	69	66		71	68	65	64
6	79	71	67	63	77	71	66	63	69	65	63		68	65	62		67	64	62	61
7	75	68	63	59	74	67	62	59	66	62	59		65	61	59		64	61	58	57
8	72	64	59	56	71	64	59	56	63	59	56		62	58	55		61	58	55	54
9	69	61	56	53	68	60	56	53	60	56	53		59	55	52		58	55	52	51
10	66	58	53	50	65	58	53	50	57	53	50		56	52	50		56	52	50	49

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

	0°
0°	80720
5°	79444
10°	70574
15°	58236
20°	49033
25°	41360
30°	30978
35°	17520
40°	6920
45°	1849
50°	374
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°	234.8	14.3	12.4	0°	2618	
10°-20°	511.9	31.2	27.1	5°	2566	235
20°-30°	548.4	33.4	29.1	15°	1824	512
30°-40°	297.2	18.1	15.7	25°	1216	548
40°-50°	46.2	2.8	2.4	35°	465	297
50°-60°	1.3	0.1	0.1	45°	42	46
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°	1295.1	79.0	68.6	165°	0	0
0°-40°	1592.2	97.1	84.4	175°	0	0
0°-60°	1639.7	100.0	86.9	180°	0	0
0°-90°	1640.1	100.0	86.9			
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°	1640.1	100.0	86.9			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2617.7
2.5°	2616.0
5°	2566.5
7.5°	2444.1
10°	2253.9
12.5°	2032.5
15°	1824.2
17.5°	1647.9
20°	1494.2
22.5°	1356.2
25°	1215.6
27.5°	1056.7
30°	870.0
32.5°	663.4
35°	465.4
37.5°	297.9
40°	171.9
42.5°	92.0
45°	42.4
47.5°	22.6
50°	7.8
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)