

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: P245655

Luminaire Tested: **LD8B30D010 ER8B30950 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245655  
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: LD8B30D010 ER8B30950 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 2307.9 lumens  
Efficiency: 105.7%  
Efficacy: 85.2 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

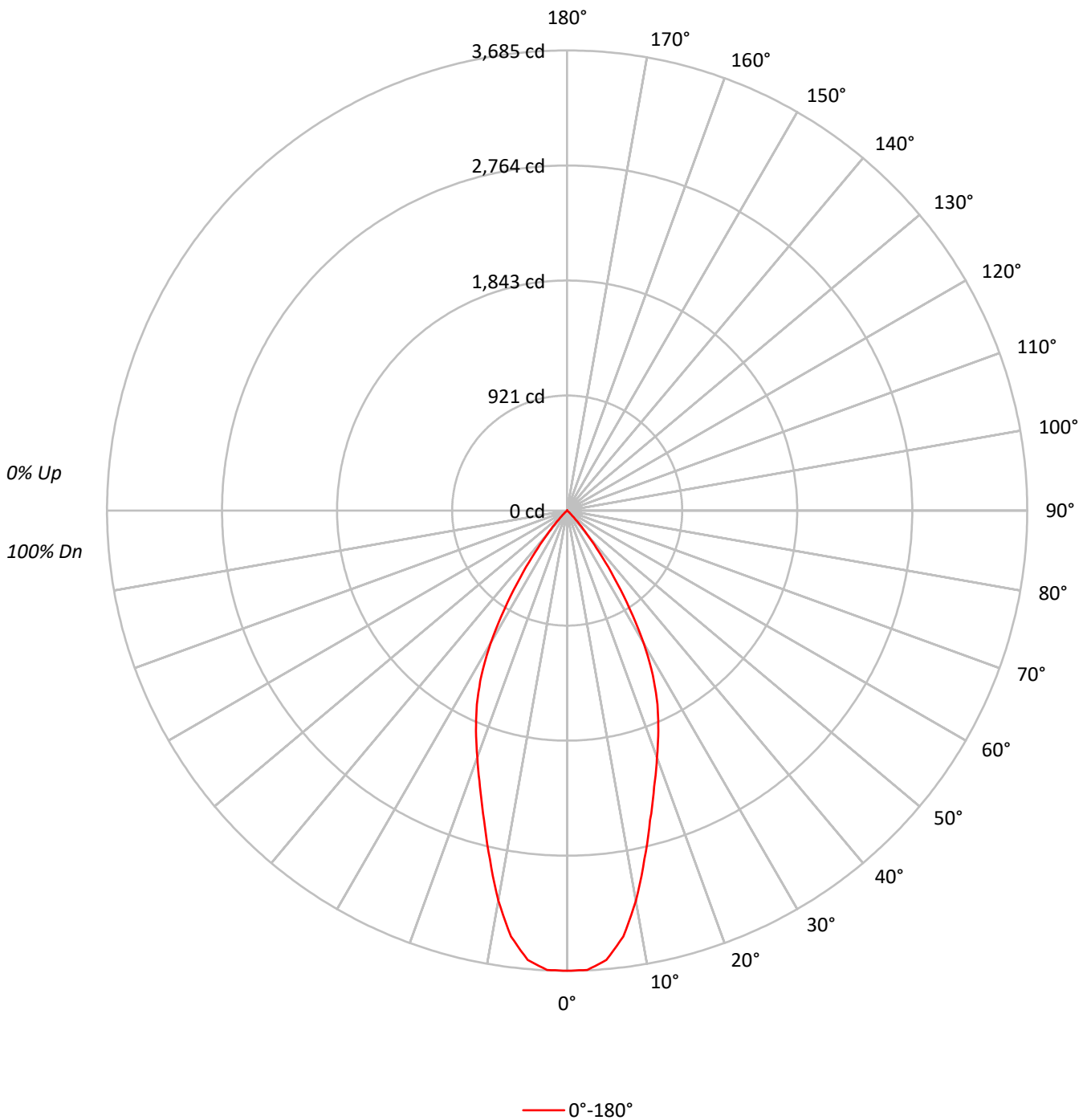
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	126	126	126	126	123	123	123	123	117	117	117	112	112	112	108	108	108	106
1	120	118	115	113	118	115	113	111	111	109	108	107	106	105	104	103	102	100
2	115	110	106	103	113	108	105	102	105	102	100	102	100	98	99	97	96	94
3	110	104	99	95	108	102	98	94	99	96	93	97	94	91	95	92	90	88
4	105	97	92	88	103	96	91	87	94	90	86	92	88	85	90	87	84	83
5	100	92	86	82	98	91	86	82	89	84	81	87	83	80	86	82	80	78
6	96	87	81	77	94	86	81	77	84	80	76	83	79	76	82	78	75	74
7	91	82	76	72	90	82	76	72	80	75	72	79	75	71	78	74	71	70
8	87	78	72	68	86	77	72	68	76	71	68	75	71	67	74	70	67	66
9	83	74	68	64	82	74	68	64	73	68	64	72	67	64	71	67	64	62
10	80	70	65	61	79	70	65	61	69	64	61	68	64	61	68	63	60	59

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

	0°
0°	113629
5°	111809
10°	99344
15°	81968
20°	69004
25°	58219
30°	43583
35°	24649
40°	9733
45°	2625
50°	504
55°	0
60°	62
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°	330.5	14.3	15.1	0°	3685	
10°-20°	720.4	31.2	33.0	5°	3612	331
20°-30°	771.7	33.4	35.4	15°	2568	720
30°-40°	418.2	18.1	19.2	25°	1711	772
40°-50°	65.1	2.8	3.0	35°	655	418
50°-60°	1.7	0.1	0.1	45°	60	65
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°	1822.6	79.0	83.5	165°	0	0
0°-40°	2240.8	97.1	102.6	175°	0	0
0°-60°	2307.6	100.0	105.7	180°	0	0
0°-90°	2307.9	100.0	105.7			
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°	2307.9	100.0	105.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3684.9
2.5°	3681.9
5°	3612.1
7.5°	3439.9
10°	3172.7
12.5°	2860.1
15°	2567.6
17.5°	2319.3
20°	2102.8
22.5°	1908.5
25°	1711.1
27.5°	1487.0
30°	1224.0
32.5°	933.6
35°	654.8
37.5°	419.4
40°	241.8
42.5°	128.8
45°	60.2
47.5°	32.8
50°	10.5
52.5°	1.0
55°	0.0
57.5°	1.0
60°	1.0
62.5°	0.0
65°	0.0
67.5°	1.0
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)