

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: P245649

Luminaire Tested: **LD8B30D010 ER8B30940 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245649  
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 ER8B30940 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 2229.0 lumens  
Efficiency: 102.1%  
Efficacy: 82.2 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

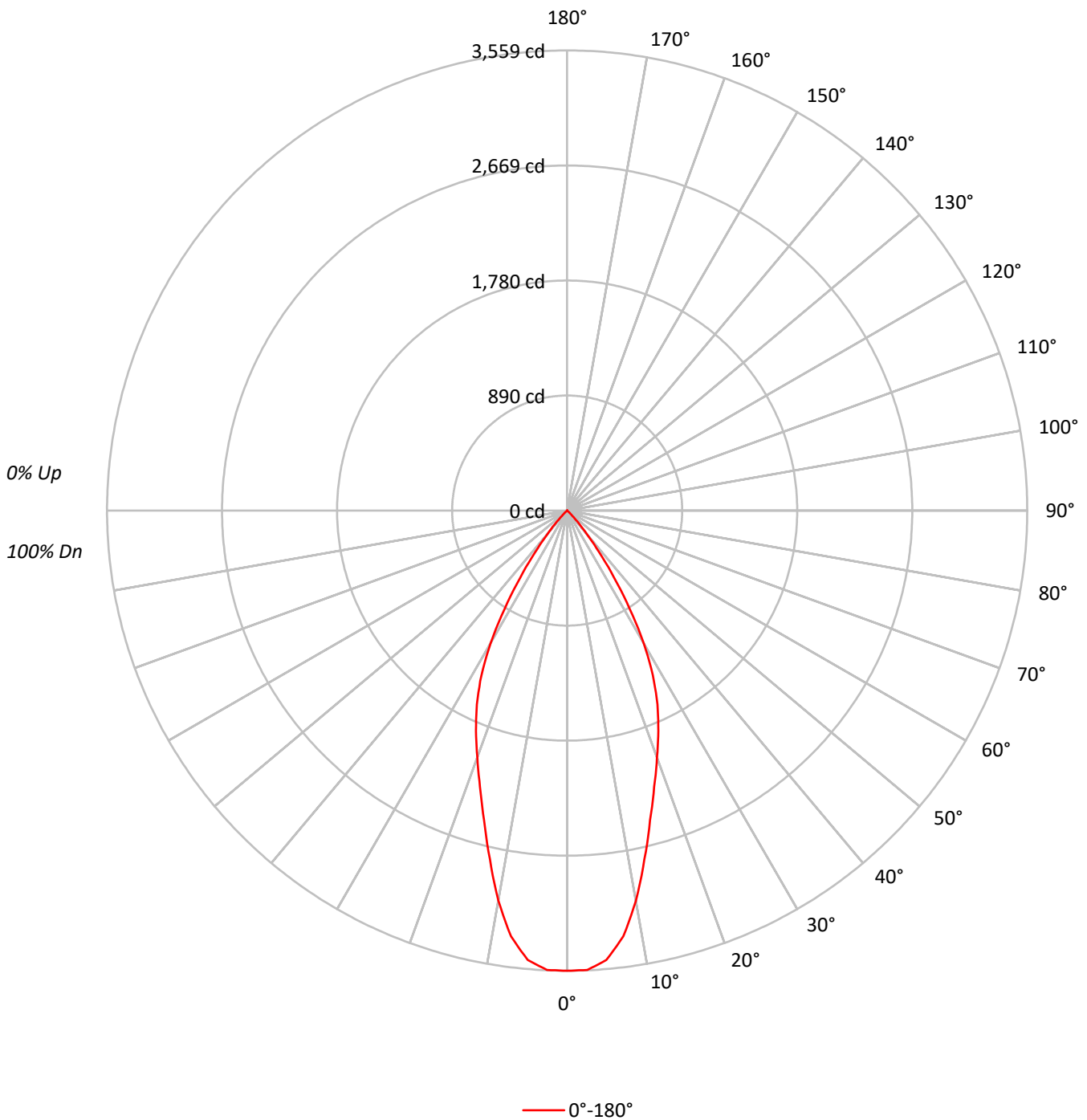
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	122	122	122	122	119	119	119	119	113	113	113	109	109	109	104	104	104	102
1	116	114	111	109	114	112	109	107	107	106	104	104	102	101	100	99	98	96
2	111	107	103	99	109	105	101	98	102	99	96	99	96	94	96	94	92	91
3	106	100	95	92	104	99	94	91	96	92	89	94	91	88	91	89	87	85
4	101	94	89	85	99	93	88	84	91	87	83	89	85	83	87	84	82	80
5	97	89	83	79	95	88	83	79	86	82	78	84	81	77	83	80	77	75
6	92	84	78	74	91	83	78	74	82	77	73	80	76	73	79	75	72	71
7	88	79	74	70	87	79	73	70	77	73	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	69	66	74	69	65	73	68	65	72	68	65	63
9	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57

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

	0°
0°	109740
5°	107980
10°	95946
15°	79162
20°	66641
25°	56225
30°	42091
35°	23806
40°	9399
45°	2534
50°	485
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°	319.2	14.3	14.6	0°	3559	
10°-20°	695.8	31.2	31.9	5°	3488	319
20°-30°	745.3	33.4	34.1	15°	2480	696
30°-40°	403.9	18.1	18.5	25°	1652	745
40°-50°	62.8	2.8	2.9	35°	632	404
50°-60°	1.6	0.1	0.1	45°	58	63
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°	1760.3	79.0	80.6	165°	0	0
0°-40°	2164.1	97.1	99.1	175°	0	0
0°-60°	2228.6	100.0	102.1	180°	0	0
0°-90°	2229.0	100.0	102.1			
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°	2229.0	100.0	102.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3558.8
2.5°	3555.9
5°	3488.4
7.5°	3322.1
10°	3064.2
12.5°	2762.2
15°	2479.7
17.5°	2240.0
20°	2030.8
22.5°	1843.2
25°	1652.5
27.5°	1436.1
30°	1182.1
32.5°	901.7
35°	632.4
37.5°	405.0
40°	233.5
42.5°	124.4
45°	58.1
47.5°	31.7
50°	10.1
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)