

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: P250790

Luminaire Tested: **LD8B175D010 ER8B175930 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14992.3 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

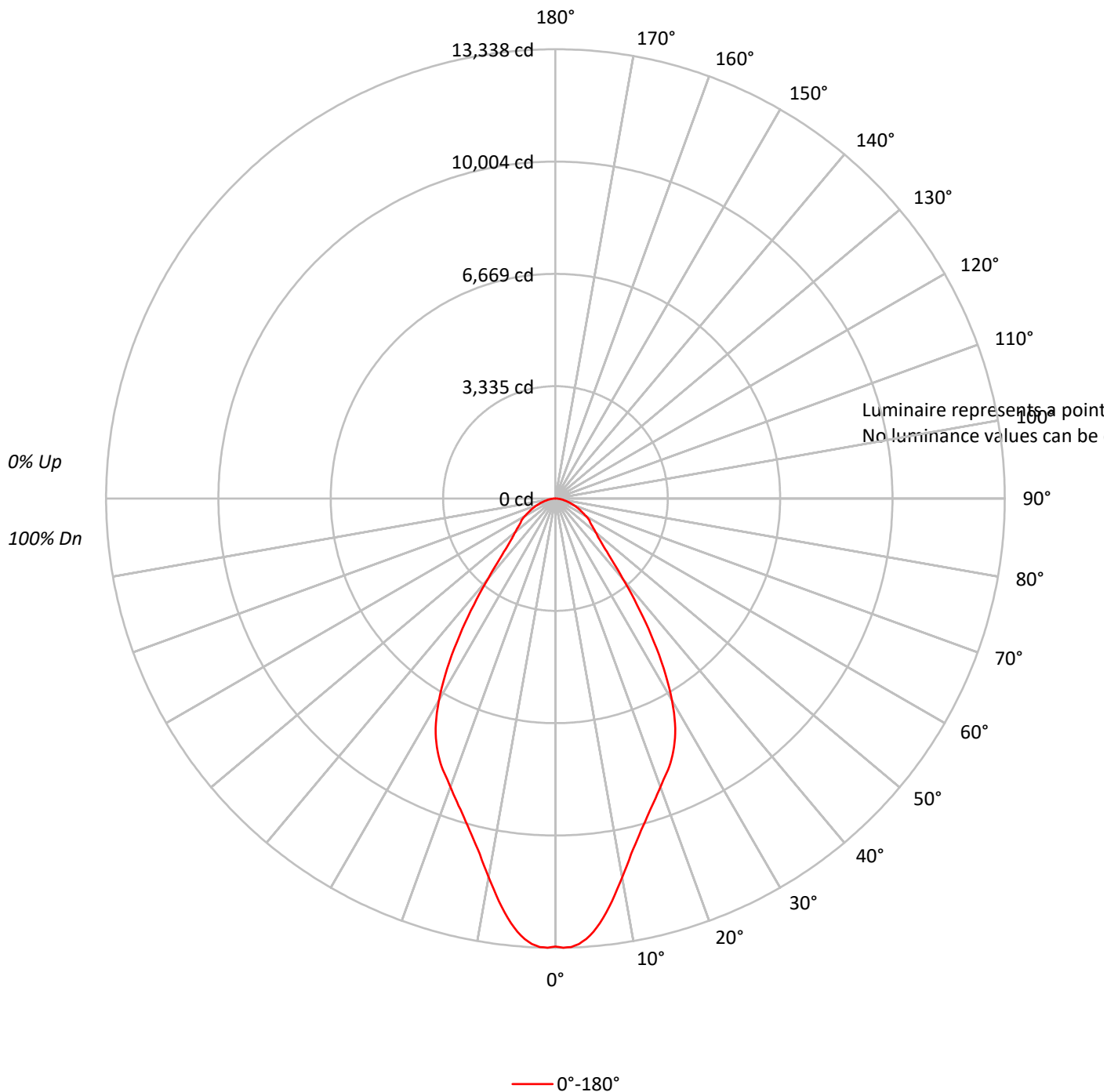
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





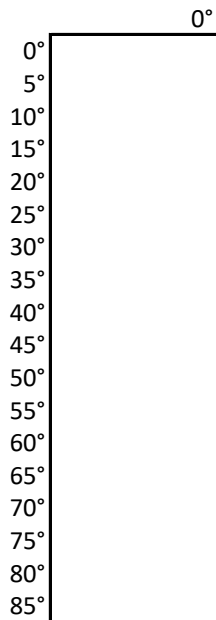
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	50	30	10		
RCR																									
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89							
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80							
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71							
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65							
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59							
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54							
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49							
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46							
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42							
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39							

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.9	7.9
10°-20°	2836.7	18.9
20°-30°	3759.2	25.1
30°-40°	3082.6	20.6
40°-50°	1641.8	11.0
50°-60°	1155.6	7.7
60°-70°	796.9	5.3
70°-80°	414.9	2.8
80°-90°	122.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7777.8	51.9
0°-40°	10860.4	72.4
0°-60°	13657.7	91.1
0°-90°	14992.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14992.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13299	
5°	12913	###
15°	10059	2837
25°	8280	3759
35°	4958	3083
45°	2026	1642
55°	1271	1156
65°	798	797
75°	395	415
85°	113	123
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13298.9
1°	13338.0
2°	13320.5
3°	13242.5
4°	13108.1
5°	12912.8
6°	12670.0
7°	12379.3
8°	12067.0
9°	11733.1
10°	11412.1
11°	11104.1
12°	10791.8
13°	10531.5
14°	10284.3
15°	10058.7
16°	9846.2
17°	9651.0
18°	9468.8
19°	9286.7
20°	9113.2
21°	8944.0
22°	8796.6
23°	8644.7
24°	8466.9
25°	8280.4
26°	8067.8
27°	7829.3
28°	7560.4
29°	7261.1
30°	6918.4
31°	6558.3
32°	6181.1
33°	5777.6
34°	5374.2
35°	4957.7
37.5°	3973.2
40°	3114.4
42.5°	2459.4
45°	2025.6
47.5°	1739.3
50°	1561.6
52.5°	1405.4
55°	1270.9
57.5°	1188.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	1049.7
62.5°	915.2
65°	798.2
67.5°	694.0
70°	581.1
72.5°	485.7
75°	394.7
77.5°	286.2
80°	234.3
82.5°	169.2
85°	112.8
87.5°	52.0
90°	0.0

(END OF REPORT)