

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: P250097

Luminaire Tested: **LD8B175D010 ER8B175940 8LBNOWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14701.9 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

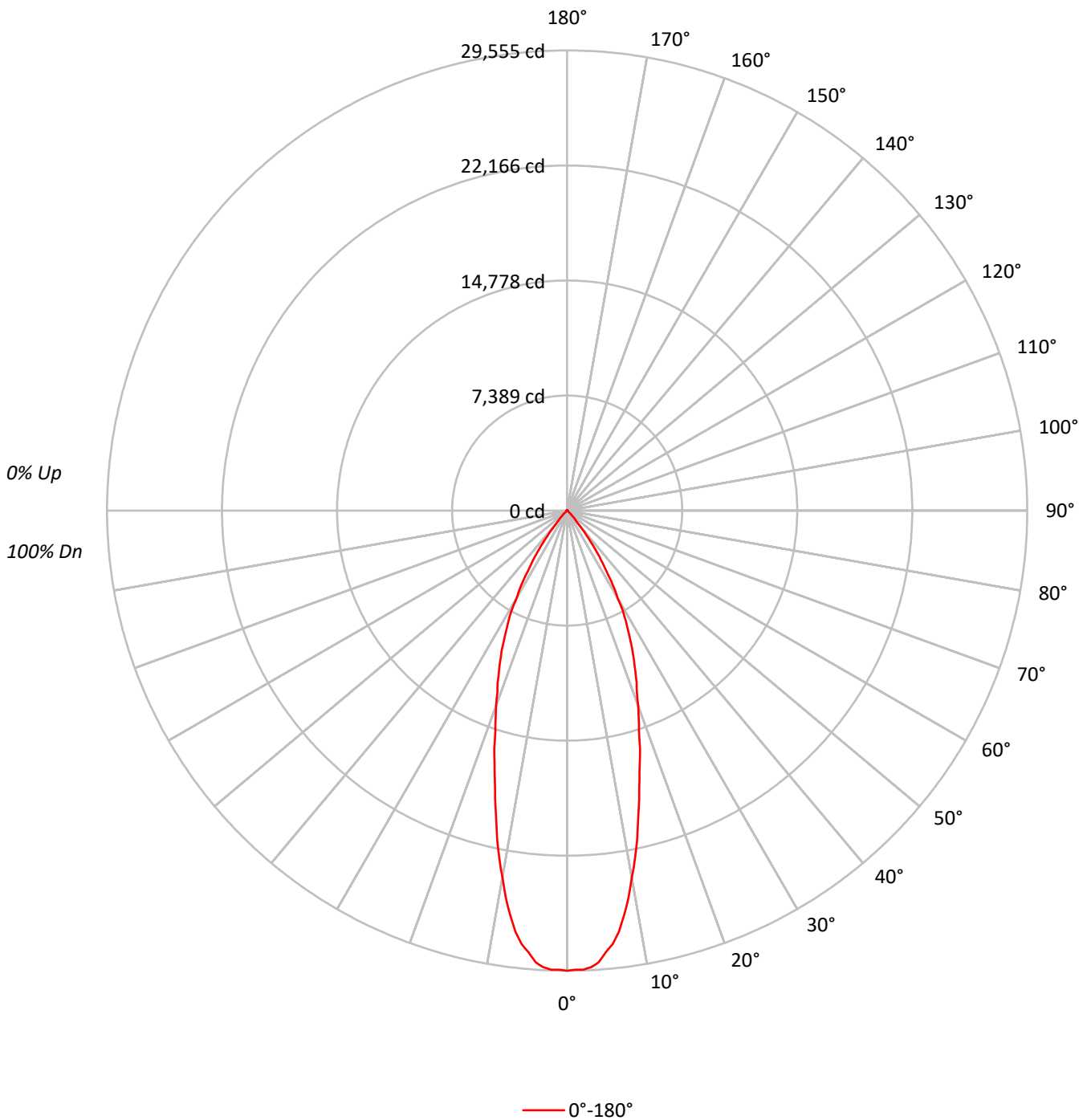
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	911355
5°	881328
10°	749516
15°	572061
20°	437199
25°	338795
30°	231073
35°	135760
40°	41510
45°	16332
50°	245
55°	274
60°	315
65°	752
70°	1388
75°	1227
80°	906
85°	5449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2581.2	17.6
10°-20°	5001.7	34.0
20°-30°	4503.1	30.6
30°-40°	2228.0	15.2
40°-50°	338.9	2.3
50°-60°	13.9	0.1
60°-70°	17.9	0.1
70°-80°	6.7	0.0
80°-90°	10.5	0.1
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°	12086.0	82.2
0°-40°	14314.0	97.4
0°-60°	14666.8	99.8
0°-90°	14701.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14701.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29555	
5°	28472	###
15°	17919	5002
25°	9958	4503
35°	3606	2228
45°	374	339
55°	5	14
65°	10	18
75°	10	7
85°	15	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	29554.6
1°	29493.1
2°	29508.3
3°	29359.5
4°	29087.7
5°	28472.1
6°	28000.1
7°	27251.2
8°	26245.7
9°	25199.1
10°	23937.0
11°	22808.4
12°	21597.8
13°	20258.8
14°	19104.5
15°	17919.4
16°	16908.8
17°	16016.2
18°	14918.3
19°	14112.8
20°	13323.0
21°	12502.0
22°	11901.8
23°	11204.1
24°	10562.8
25°	9957.5
26°	9244.3
27°	8603.2
28°	8028.6
29°	7397.5
30°	6489.6
31°	5976.6
32°	5330.2
33°	4622.2
34°	4083.5
35°	3606.4
37.5°	2282.8
40°	1031.2
42.5°	702.8
45°	374.5
47.5°	210.3
50°	5.1
52.5°	20.6
55°	5.1
57.5°	30.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	5.1
62.5°	25.7
65°	10.3
67.5°	25.7
70°	15.4
72.5°	5.1
75°	10.3
77.5°	0.0
80°	5.1
82.5°	20.6
85°	15.4
87.5°	0.0
90°	0.0

(END OF REPORT)