

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: P250741

Luminaire Tested: **LD8B175D010 ER8B175850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250741
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 ER8B175850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18390.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

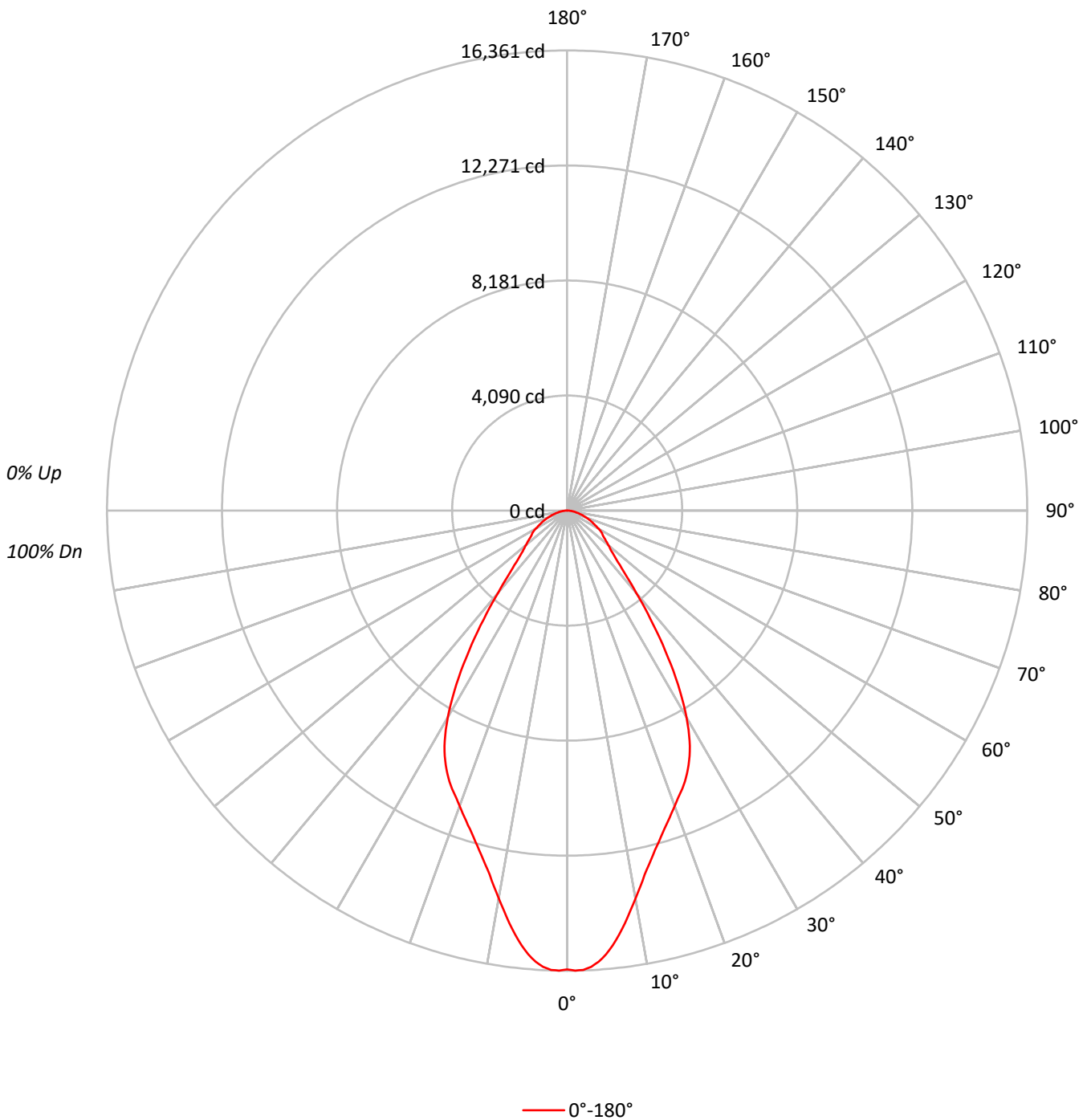
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):

	0°
0°	503030
5°	490291
10°	438318
15°	393892
20°	366826
25°	345579
30°	302169
35°	228926
40°	153778
45°	108356
50°	91887
55°	83814
60°	79404
65°	71433
70°	64275
75°	57689
80°	51019
85°	48967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1449.8	7.9
10°-20°	3479.6	18.9
20°-30°	4611.1	25.1
30°-40°	3781.2	20.6
40°-50°	2013.9	11.0
50°-60°	1417.4	7.7
60°-70°	977.4	5.3
70°-80°	509.0	2.8
80°-90°	150.6	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°	9540.5	51.9
0°-40°	13321.7	72.4
0°-60°	16753.0	91.1
0°-90°	18390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18390.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16313	
5°	15839	###
15°	12338	3480
25°	10157	4611
35°	6081	3781
45°	2485	2014
55°	1559	1417
65°	979	977
75°	484	509
85°	138	151
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	16312.9
1°	16360.8
2°	16339.4
3°	16243.6
4°	16078.8
5°	15839.3
6°	15541.4
7°	15184.9
8°	14801.8
9°	14392.1
10°	13998.4
11°	13620.6
12°	13237.5
13°	12918.3
14°	12615.1
15°	12338.4
16°	12077.7
17°	11838.3
18°	11614.7
19°	11391.3
20°	11178.5
21°	10971.0
22°	10790.1
23°	10603.9
24°	10385.8
25°	10156.9
26°	9896.3
27°	9603.6
28°	9273.7
29°	8906.6
30°	8486.3
31°	8044.7
32°	7581.9
33°	7087.0
34°	6592.2
35°	6081.3
37.5°	4873.6
40°	3820.2
42.5°	3016.8
45°	2484.7
47.5°	2133.6
50°	1915.4
52.5°	1723.9
55°	1559.0
57.5°	1457.8



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CANDELA DISTRIBUTION (continued):

	0°
60°	1287.5
62.5°	1122.6
65°	979.0
67.5°	851.3
70°	712.9
72.5°	595.9
75°	484.2
77.5°	351.1
80°	287.3
82.5°	207.5
85°	138.4
87.5°	63.8
90°	0.0

(END OF REPORT)