

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: P250734

Luminaire Tested: **LD8B175D010 ER8B175840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250734
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 ER8B175840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18036.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

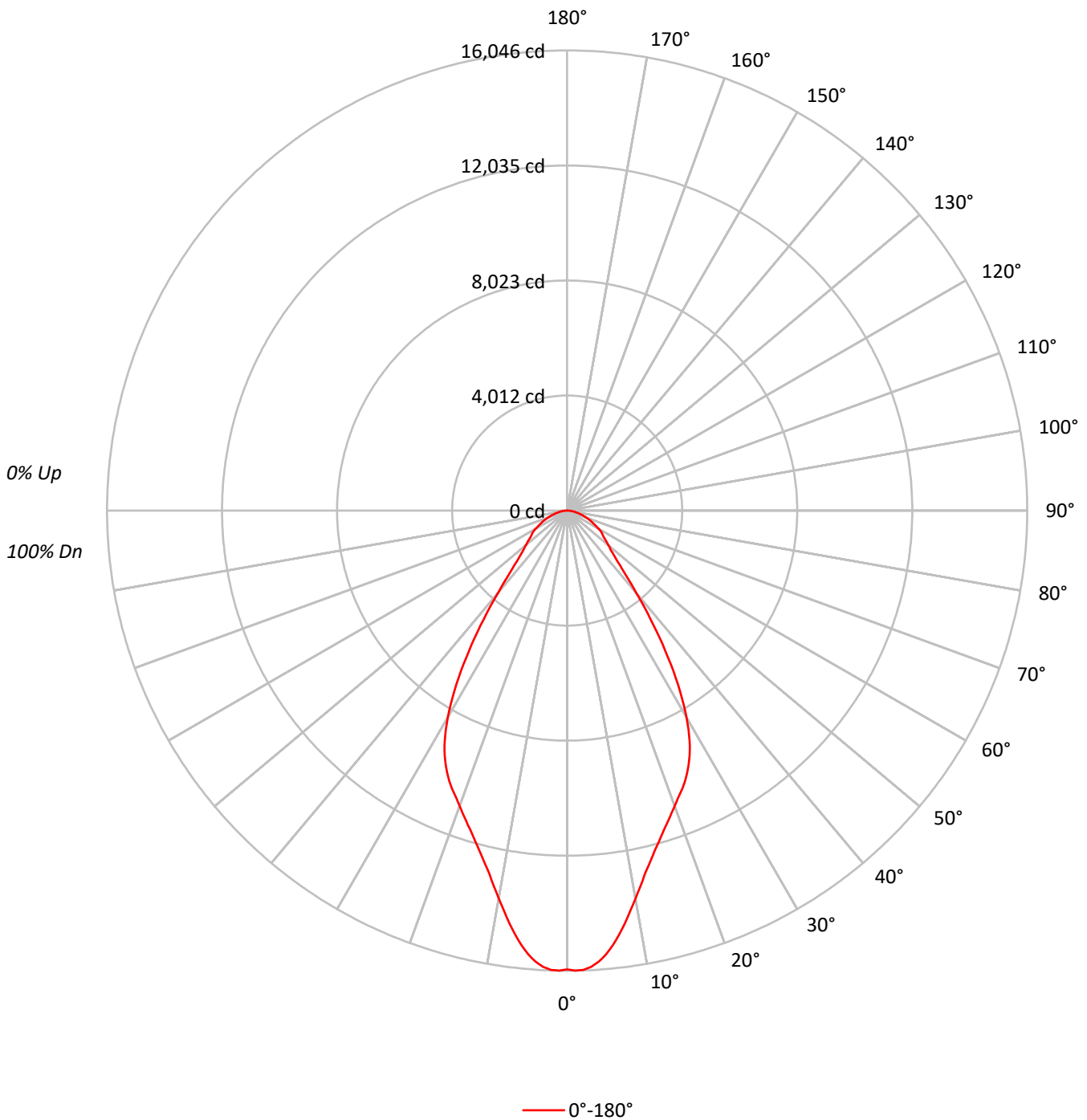
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	493347
5°	480853
10°	429883
15°	386310
20°	359764
25°	338928
30°	296351
35°	224521
40°	150815
45°	106271
50°	90117
55°	82201
60°	77880
65°	70054
70°	63039
75°	56569
80°	50042
85°	48012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1421.9	7.9
10°-20°	3412.6	18.9
20°-30°	4522.4	25.1
30°-40°	3708.4	20.6
40°-50°	1975.1	11.0
50°-60°	1390.2	7.7
60°-70°	958.6	5.3
70°-80°	499.2	2.8
80°-90°	147.7	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°	9356.9	51.9
0°-40°	13065.3	72.4
0°-60°	16430.5	91.1
0°-90°	18036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18036.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15999	
5°	15534	###
15°	12101	3413
25°	9961	4522
35°	5964	3708
45°	2437	1975
55°	1529	1390
65°	960	959
75°	475	499
85°	136	148
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	15998.9
1°	16045.8
2°	16024.9
3°	15930.9
4°	15769.3
5°	15534.4
6°	15242.2
7°	14892.6
8°	14516.9
9°	14115.1
10°	13729.0
11°	13358.4
12°	12982.7
13°	12669.6
14°	12372.2
15°	12100.9
16°	11845.2
17°	11610.4
18°	11391.2
19°	11172.1
20°	10963.3
21°	10759.8
22°	10582.4
23°	10399.7
24°	10185.9
25°	9961.4
26°	9705.8
27°	9418.8
28°	9095.2
29°	8735.2
30°	8322.9
31°	7889.8
32°	7435.9
33°	6950.6
34°	6465.3
35°	5964.3
37.5°	4779.8
40°	3746.6
42.5°	2958.7
45°	2436.9
47.5°	2092.5
50°	1878.5
52.5°	1690.7
55°	1529.0
57.5°	1429.8



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CANDELA DISTRIBUTION (continued):

	0°
60°	1262.8
62.5°	1101.0
65°	960.1
67.5°	834.9
70°	699.2
72.5°	584.4
75°	474.8
77.5°	344.4
80°	281.8
82.5°	203.5
85°	135.7
87.5°	62.6
90°	0.0

(END OF REPORT)