

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: P250643

Luminaire Tested: **LD8B175D010 ER8B175835 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175835 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16412.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

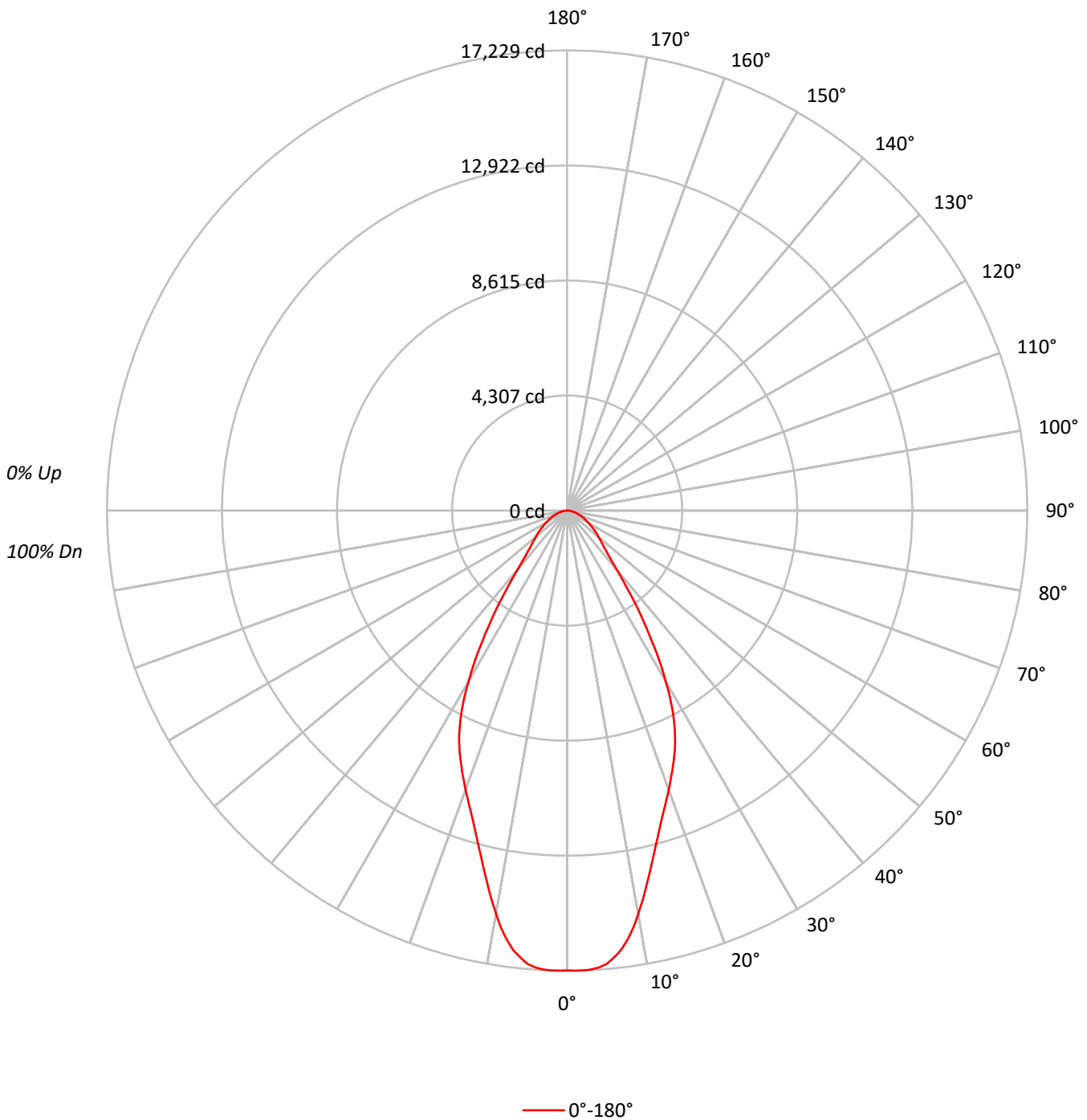
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	530952
5°	527142
10°	480279
15°	411763
20°	364824
25°	325529
30°	262909
35°	182548
40°	115734
45°	85866
50°	73360
55°	64476
60°	57485
65°	51579
70°	44385
75°	40568
80°	38109
85°	33364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1571.8	9.6
10°-20°	3626.7	22.1
20°-30°	4322.5	26.3
30°-40°	3051.2	18.6
40°-50°	1575.7	9.6
50°-60°	1081.3	6.6
60°-70°	703.0	4.3
70°-80°	368.0	2.2
80°-90°	111.8	0.7
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°	9521.0	58.0
0°-40°	12572.2	76.6
0°-60°	15229.2	92.8
0°-90°	16412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16412.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17218	
5°	17030	###
15°	12898	3627
25°	9568	4322
35°	4849	3051
45°	1969	1576
55°	1199	1081
65°	707	703
75°	340	368
85°	94	112
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	17218.4
1°	17228.9
2°	17228.9
3°	17202.6
4°	17145.1
5°	17029.8
6°	16825.6
7°	16574.2
8°	16228.5
9°	15809.8
10°	15338.5
11°	14840.9
12°	14322.3
13°	13825.0
14°	13343.2
15°	12898.2
16°	12484.4
17°	12102.2
18°	11756.4
19°	11431.7
20°	11117.5
21°	10808.6
22°	10504.9
23°	10201.2
24°	9892.3
25°	9567.6
26°	9200.8
27°	8802.8
28°	8368.3
29°	7907.5
30°	7383.7
31°	6875.9
32°	6357.3
33°	5823.2
34°	5330.9
35°	4849.3
37.5°	3733.9
40°	2875.1
42.5°	2314.7
45°	1969.0
47.5°	1722.8
50°	1529.2
52.5°	1361.6
55°	1199.3
57.5°	1052.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	932.1
62.5°	811.8
65°	706.9
67.5°	612.6
70°	492.3
72.5°	424.3
75°	340.5
77.5°	277.4
80°	214.6
82.5°	157.1
85°	94.3
87.5°	52.3
90°	0.0

(END OF REPORT)