

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: P250356

Luminaire Tested: **LD8B175D010 ER8B175950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13243.9 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

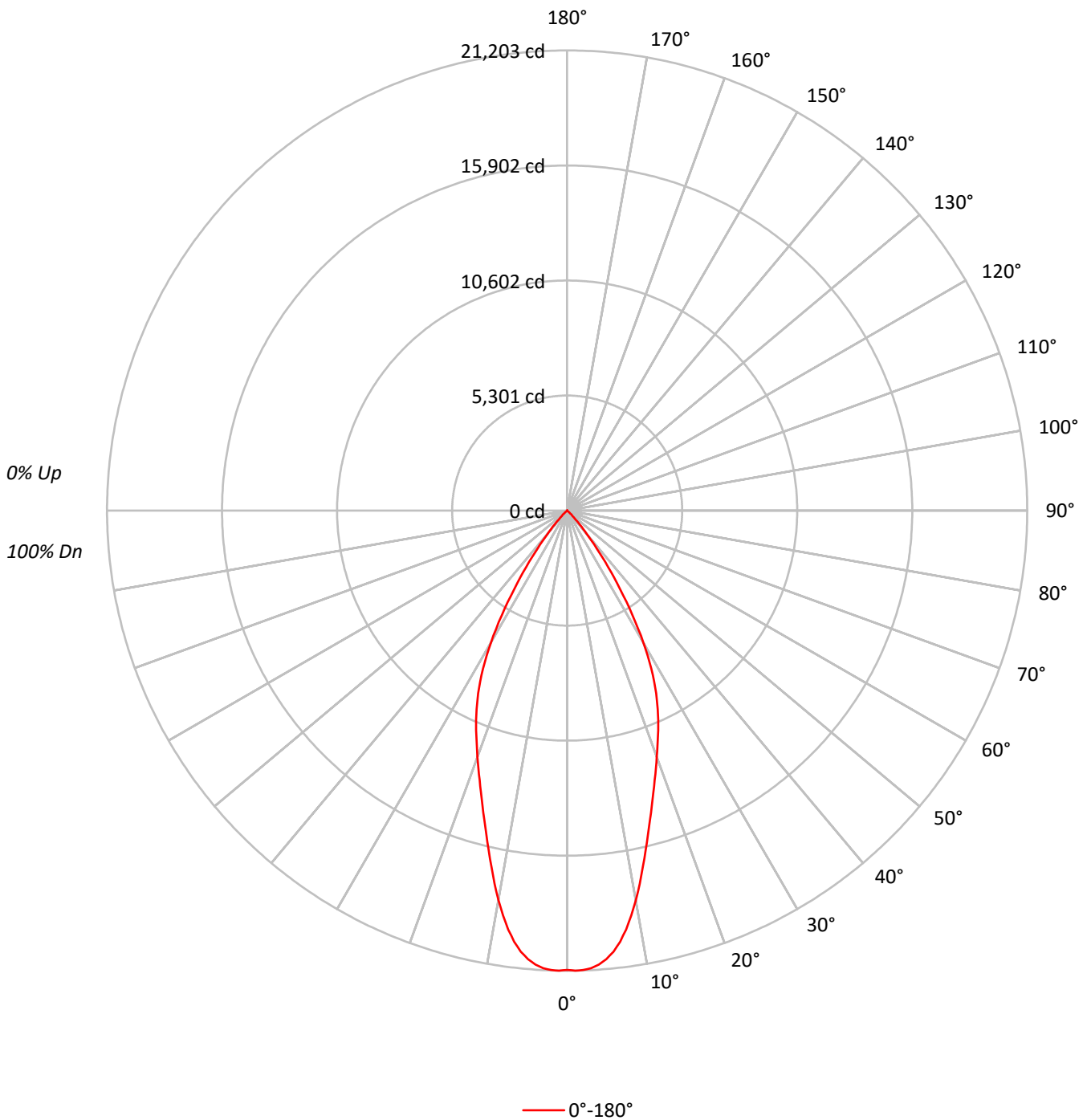
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	652577
5°	642149
10°	570536
15°	470641
20°	396373
25°	334321
30°	250319
35°	141663
40°	56013
45°	15036
50°	2883
55°	0
60°	413
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1899.8	14.3
10°-20°	4129.0	31.2
20°-30°	4432.8	33.5
30°-40°	2395.8	18.1
40°-50°	373.8	2.8
50°-60°	10.2	0.1
60°-70°	2.5	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	10461.6	79.0
0°-40°	12857.4	97.1
0°-60°	13241.4	100.0
0°-90°	13243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13243.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21163	
5°	20745	###
15°	14742	4129
25°	9826	4433
35°	3763	2396
45°	345	374
55°	0	10
65°	0	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	21162.6
1°	21202.8
2°	21182.9
3°	21110.3
4°	20971.0
5°	20745.2
6°	20434.5
7°	20016.4
8°	19493.1
9°	18890.8
10°	18221.0
11°	17518.5
12°	16789.7
13°	16061.5
14°	15385.0
15°	14742.5
16°	14152.7
17°	13582.8
18°	13052.7
19°	12556.4
20°	12078.9
21°	11615.0
22°	11177.4
23°	10740.7
24°	10283.5
25°	9826.0
26°	9362.0
27°	8832.3
28°	8248.9
29°	7653.3
30°	7030.1
31°	6361.0
32°	5691.3
33°	5028.9
34°	4359.8
35°	3763.2
37.5°	2405.1
40°	1391.5
42.5°	742.3
45°	344.8
47.5°	185.9
50°	60.1
52.5°	6.7
55°	0.0
57.5°	6.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	6.7
62.5°	0.0
65°	0.0
67.5°	6.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)