

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: P249929

Luminaire Tested: **LD8B175D010 ER8B175940 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15853.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

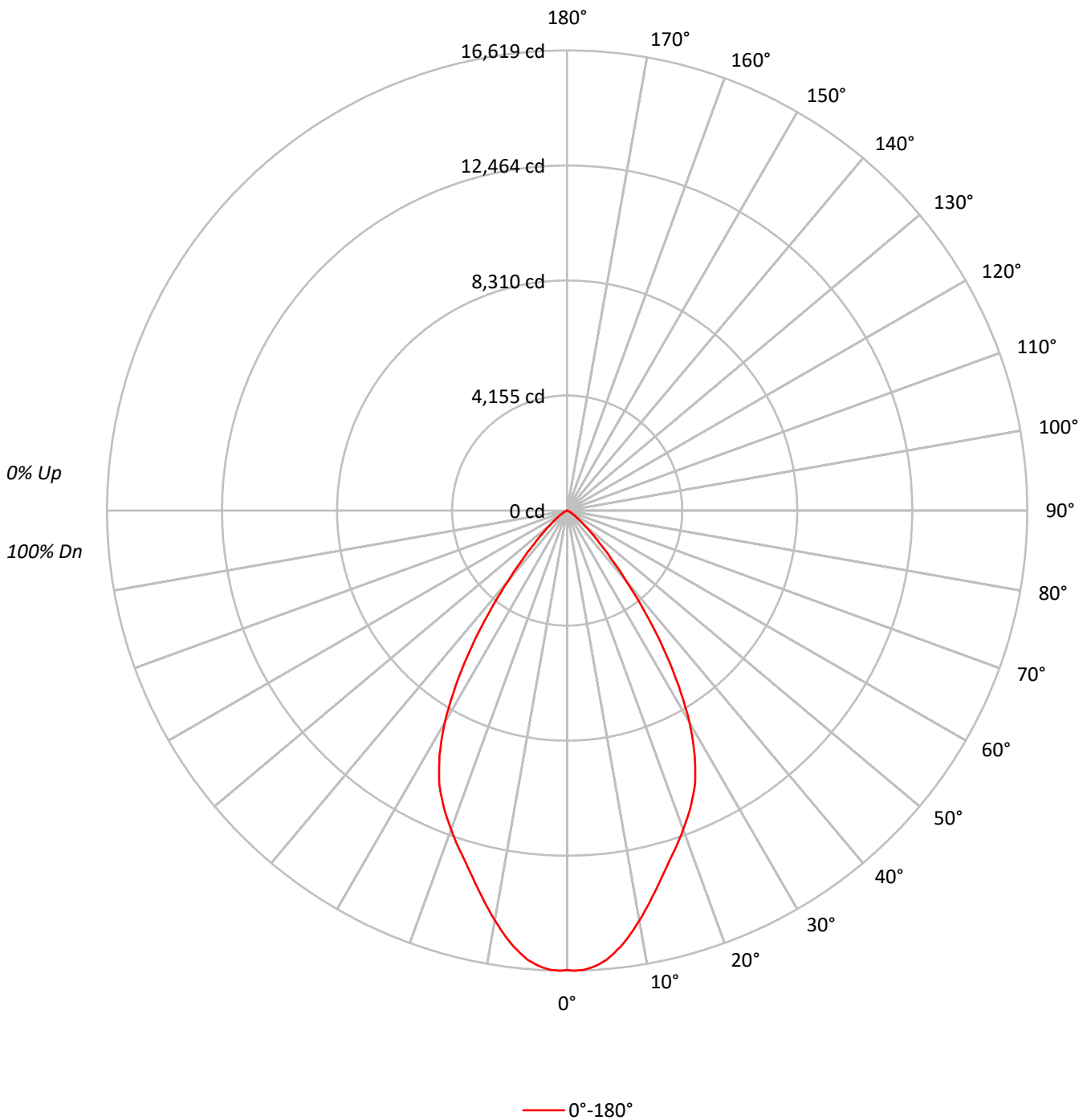
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	511701
5°	504165
10°	470513
15°	431882
20°	402237
25°	371632
30°	315148
35°	226712
40°	133555
45°	71375
50°	37241
55°	20999
60°	11588
65°	6851
70°	3120
75°	1763
80°	870
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1512.8	9.5
10°-20°	3806.3	24.0
20°-30°	4941.3	31.2
30°-40°	3729.6	23.5
40°-50°	1364.7	8.6
50°-60°	381.5	2.4
60°-70°	100.3	0.6
70°-80°	16.8	0.1
80°-90°	0.7	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°	10260.4	64.7
0°-40°	13990.0	88.2
0°-60°	15736.2	99.3
0°-90°	15853.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15853.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16594	
5°	16288	###
15°	13528	3806
25°	10923	4941
35°	6022	3730
45°	1637	1365
55°	391	381
65°	94	100
75°	15	17
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16594.1
1°	16618.8
2°	16599.0
3°	16534.7
4°	16425.9
5°	16287.5
6°	16084.8
7°	15862.3
8°	15605.1
9°	15323.3
10°	15026.6
11°	14729.9
12°	14423.4
13°	14111.9
14°	13815.2
15°	13528.4
16°	13256.5
17°	12994.4
18°	12757.0
19°	12509.8
20°	12257.6
22.5°	11629.7
25°	10922.6
27.5°	9988.1
30°	8850.8
32.5°	7481.2
35°	6022.5
37.5°	4598.5
40°	3317.8
42.5°	2348.7
45°	1636.7
47.5°	1152.1
50°	776.3
52.5°	568.6
55°	390.6
57.5°	281.8
60°	187.9
62.5°	138.4
65°	93.9
67.5°	64.3
70°	34.6
72.5°	24.7
75°	14.8
77.5°	4.9
80°	4.9



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)