

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: P249838

Luminaire Tested: **LD8B175D010 ER8B175935 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13722.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

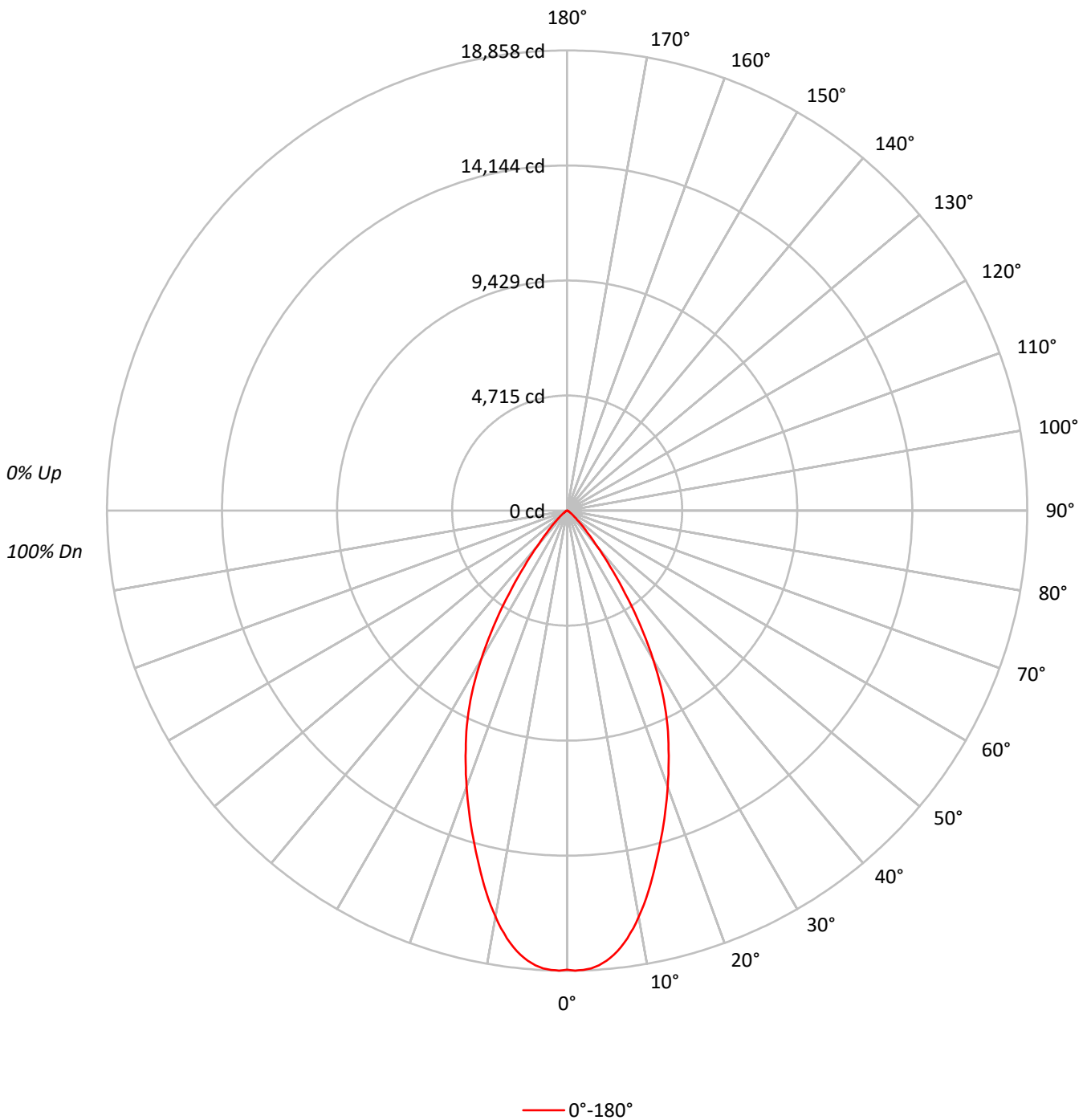
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	580358
5°	573233
10°	529405
15°	461632
20°	395431
25°	331000
30°	251818
35°	156103
40°	77014
45°	36653
50°	17822
55°	8736
60°	5440
65°	3729
70°	2092
75°	1656
80°	1651
85°	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1716.2	12.5
10°-20°	4029.2	29.4
20°-30°	4403.7	32.1
30°-40°	2620.6	19.1
40°-50°	718.8	5.2
50°-60°	162.8	1.2
60°-70°	50.3	0.4
70°-80°	15.3	0.1
80°-90°	5.0	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°	10149.1	74.0
0°-40°	12769.7	93.1
0°-60°	13651.4	99.5
0°-90°	13722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13722.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18821	
5°	18519	###
15°	14460	4029
25°	9728	4404
35°	4147	2621
45°	840	719
55°	162	163
65°	51	50
75°	14	15
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18820.6
1°	18857.8
2°	18834.5
3°	18788.1
4°	18681.3
5°	18518.8
6°	18309.8
7°	18031.2
8°	17706.1
9°	17330.0
10°	16907.4
11°	16457.0
12°	15974.1
13°	15477.2
14°	14961.8
15°	14460.3
16°	13968.0
17°	13485.1
18°	13002.2
19°	12519.2
20°	12050.2
22.5°	10870.7
25°	9728.4
27.5°	8470.0
30°	7072.2
32.5°	5572.4
35°	4146.8
37.5°	2883.7
40°	1913.2
42.5°	1253.8
45°	840.5
47.5°	557.2
50°	371.5
52.5°	227.5
55°	162.5
57.5°	116.1
60°	88.2
62.5°	65.0
65°	51.1
67.5°	32.5
70°	23.2
72.5°	18.6
75°	13.9
77.5°	9.3
80°	9.3



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.6
85°	4.6
87.5°	4.6
90°	0.0

(END OF REPORT)