

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: P249866

Luminaire Tested: **LD8B175D010 ER8B175930 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249866
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 ER8B175930 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13287.2 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

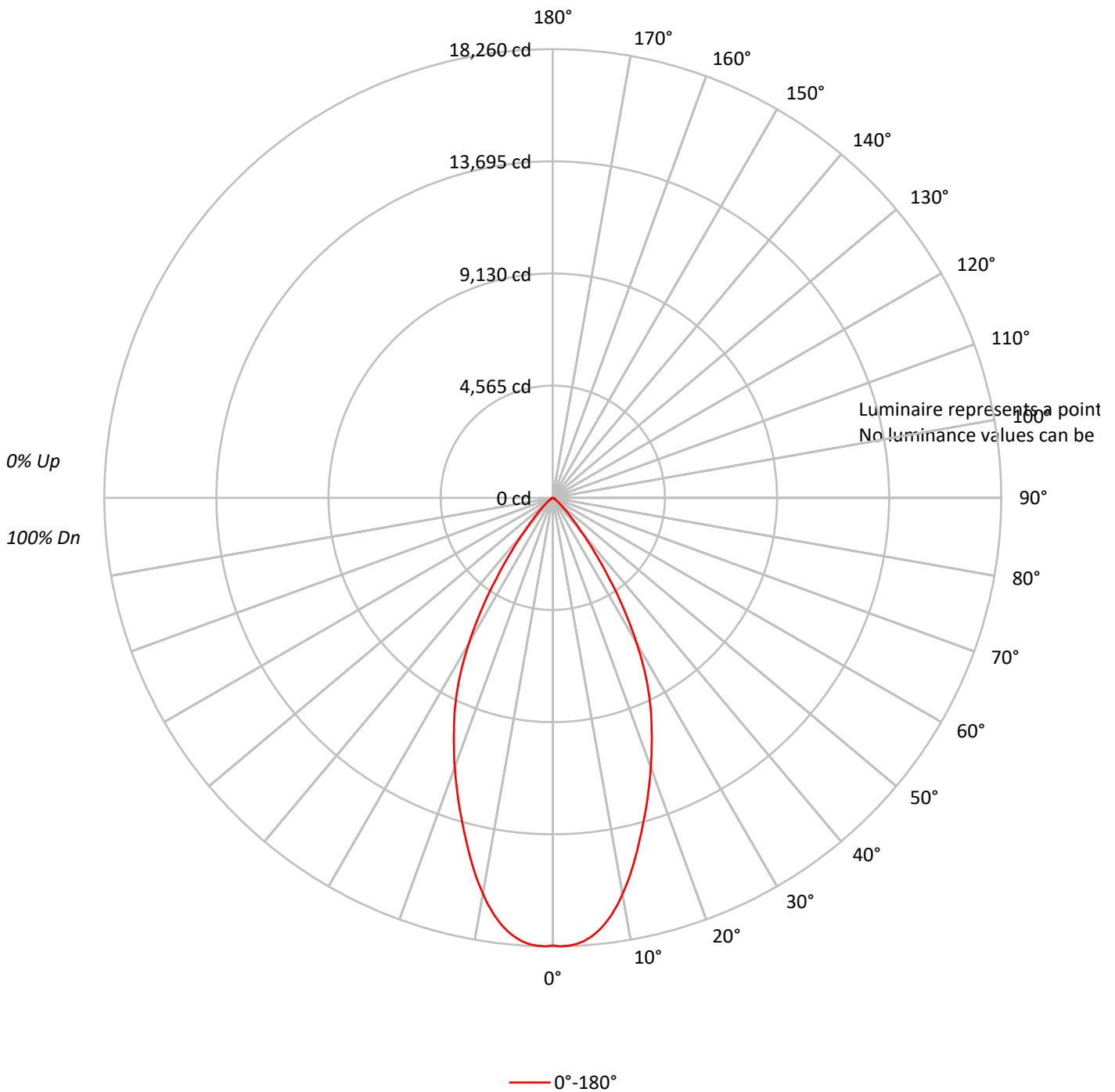
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1661.8	12.5
10°-20°	3901.5	29.4
20°-30°	4264.2	32.1
30°-40°	2537.6	19.1
40°-50°	696.0	5.2
50°-60°	157.7	1.2
60°-70°	48.7	0.4
70°-80°	14.8	0.1
80°-90°	4.9	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°	9827.5	74.0
0°-40°	12365.1	93.1
0°-60°	13218.8	99.5
0°-90°	13287.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13287.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18224	
5°	17932	###
15°	14002	3902
25°	9420	4264
35°	4015	2538
45°	814	696
55°	157	158
65°	49	49
75°	14	15
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18224.3
1°	18260.2
2°	18237.8
3°	18192.8
4°	18089.4
5°	17932.0
6°	17729.6
7°	17459.9
8°	17145.1
9°	16780.9
10°	16371.8
11°	15935.6
12°	15467.9
13°	14986.8
14°	14487.7
15°	14002.1
16°	13525.4
17°	13057.9
18°	12590.2
19°	12122.5
20°	11668.4
22.5°	10526.3
25°	9420.1
27.5°	8201.6
30°	6848.2
32.5°	5395.8
35°	4015.4
37.5°	2792.3
40°	1852.6
42.5°	1214.0
45°	813.8
47.5°	539.5
50°	359.7
52.5°	220.3
55°	157.4
57.5°	112.4
60°	85.4
62.5°	63.0
65°	49.4
67.5°	31.5
70°	22.5
72.5°	17.9
75°	13.5
77.5°	9.0
80°	9.0



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.5
85°	4.5
87.5°	4.5
90°	0.0

(END OF REPORT)