

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: P249796

Luminaire Tested: **LD8B175D010 ER8B175830 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249796
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 ER8B175830 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15473.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

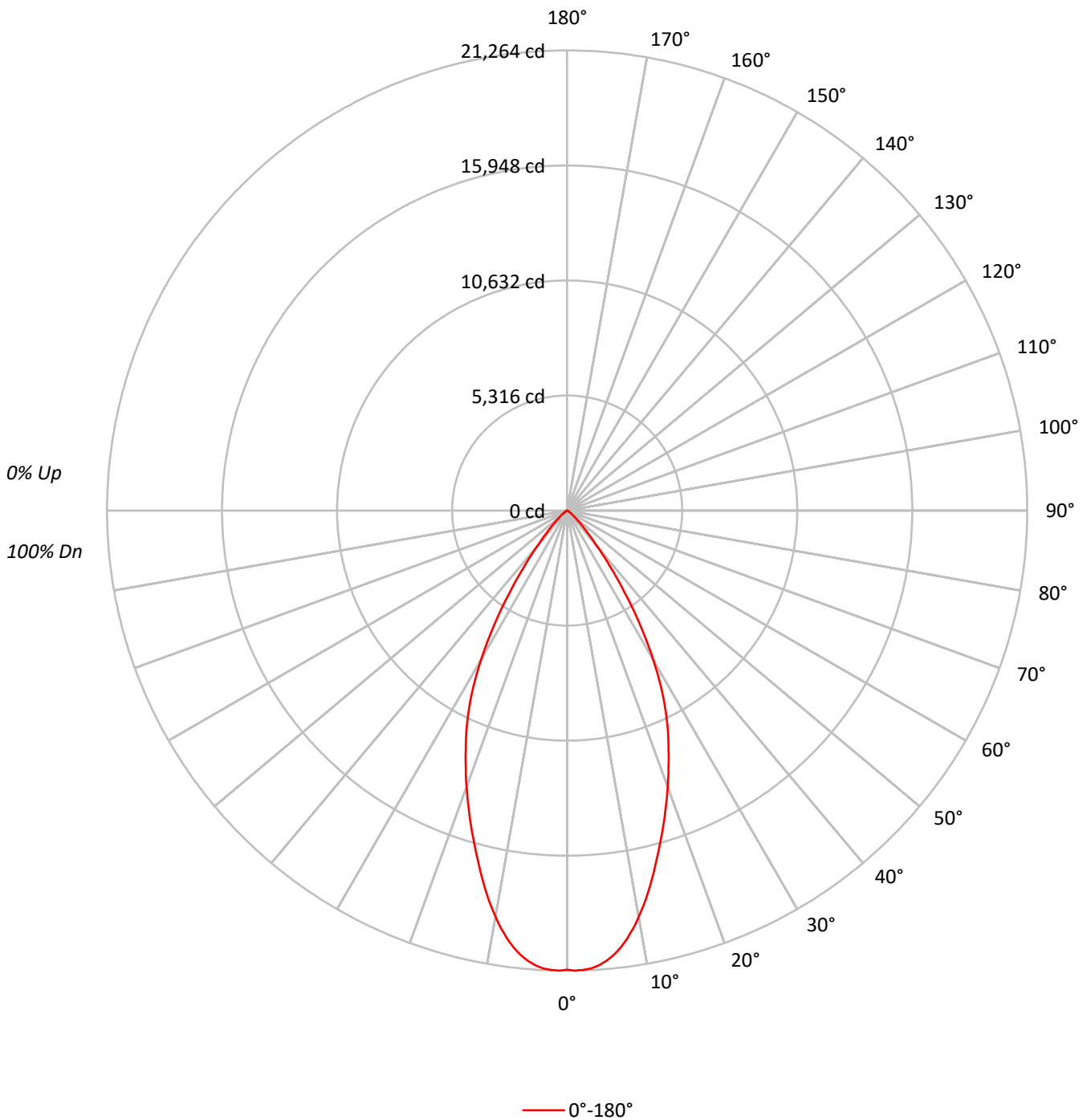
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):

	0°
0°	654414
5°	646381
10°	596960
15°	520538
20°	445891
25°	373238
30°	283953
35°	176020
40°	86840
45°	41328
50°	20096
55°	9854
60°	6136
65°	4203
70°	2362
75°	1871
80°	1865
85°	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1935.2	12.5
10°-20°	4543.3	29.4
20°-30°	4965.7	32.1
30°-40°	2955.0	19.1
40°-50°	810.5	5.2
50°-60°	183.6	1.2
60°-70°	56.7	0.4
70°-80°	17.2	0.1
80°-90°	5.7	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°	11444.2	74.0
0°-40°	14399.2	93.1
0°-60°	15393.4	99.5
0°-90°	15473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15473.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21222	
5°	20882	###
15°	16306	4543
25°	10970	4966
35°	4676	2955
45°	948	811
55°	183	184
65°	58	57
75°	16	17
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	21222.2
1°	21264.1
2°	21237.9
3°	21185.6
4°	21065.1
5°	20881.9
6°	20646.2
7°	20332.1
8°	19965.5
9°	19541.4
10°	19064.9
11°	18557.0
12°	18012.4
13°	17452.2
14°	16871.0
15°	16305.5
16°	15750.4
17°	15205.9
18°	14661.3
19°	14116.7
20°	13587.9
22.5°	12257.9
25°	10969.8
27.5°	9550.8
30°	7974.7
32.5°	6283.4
35°	4675.9
37.5°	3251.7
40°	2157.3
42.5°	1413.8
45°	947.7
47.5°	628.3
50°	418.9
52.5°	256.6
55°	183.3
57.5°	130.9
60°	99.5
62.5°	73.3
65°	57.6
67.5°	36.7
70°	26.2
72.5°	20.9
75°	15.7
77.5°	10.5
80°	10.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.2
85°	5.2
87.5°	5.2
90°	0.0

(END OF REPORT)