

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: P249964

Luminaire Tested: **LD8B175D010 ER8B175830 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15073.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

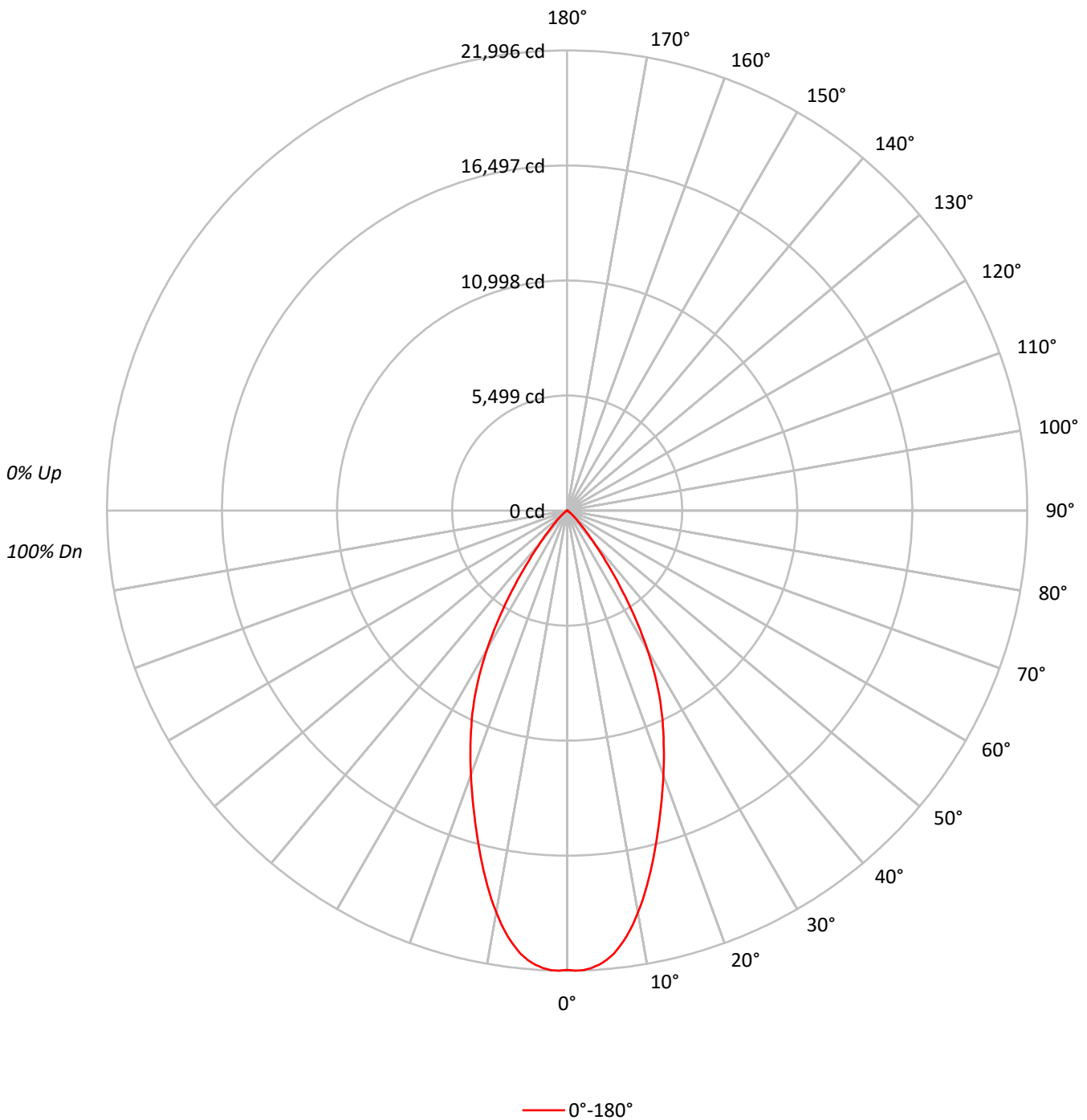
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	676987
5°	667556
10°	610719
15°	524353
20°	441560
25°	364827
30°	273648
35°	163116
40°	77714
45°	33858
50°	15351
55°	6763
60°	3879
65°	2306
70°	2371
75°	0
80°	941
85°	3715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1992.6	13.2
10°-20°	4571.8	30.3
20°-30°	4857.0	32.2
30°-40°	2771.1	18.4
40°-50°	687.1	4.6
50°-60°	135.1	0.9
60°-70°	40.8	0.3
70°-80°	9.7	0.1
80°-90°	7.9	0.1
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°	11421.4	75.8
0°-40°	14192.5	94.2
0°-60°	15014.7	99.6
0°-90°	15073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15073.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21954	
5°	21566	###
15°	16425	4572
25°	10723	4857
35°	4333	2771
45°	776	687
55°	126	135
65°	32	41
75°	0	10
85°	10	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	21954.2
1°	21996.3
2°	21980.5
3°	21901.8
4°	21765.5
5°	21566.0
6°	21303.9
7°	20941.7
8°	20527.3
9°	20039.6
10°	19504.3
11°	18938.0
12°	18329.3
13°	17710.3
14°	17075.5
15°	16425.0
16°	15811.2
17°	15192.3
18°	14609.9
19°	14017.2
20°	13455.9
22.5°	12065.6
25°	10722.6
27.5°	9280.1
30°	7685.3
32.5°	5975.0
35°	4333.1
37.5°	2984.9
40°	1930.6
42.5°	1222.4
45°	776.4
47.5°	509.0
50°	320.0
52.5°	194.2
55°	125.8
57.5°	99.7
60°	62.9
62.5°	57.6
65°	31.6
67.5°	31.6
70°	26.3
72.5°	15.8
75°	0.0
77.5°	5.3
80°	5.3



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	10.5
85°	10.5
87.5°	5.3
90°	0.0

(END OF REPORT)