

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: P249985

Luminaire Tested: **LD8B175D010 ER8B175850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249985
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 ER8B175850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15876.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

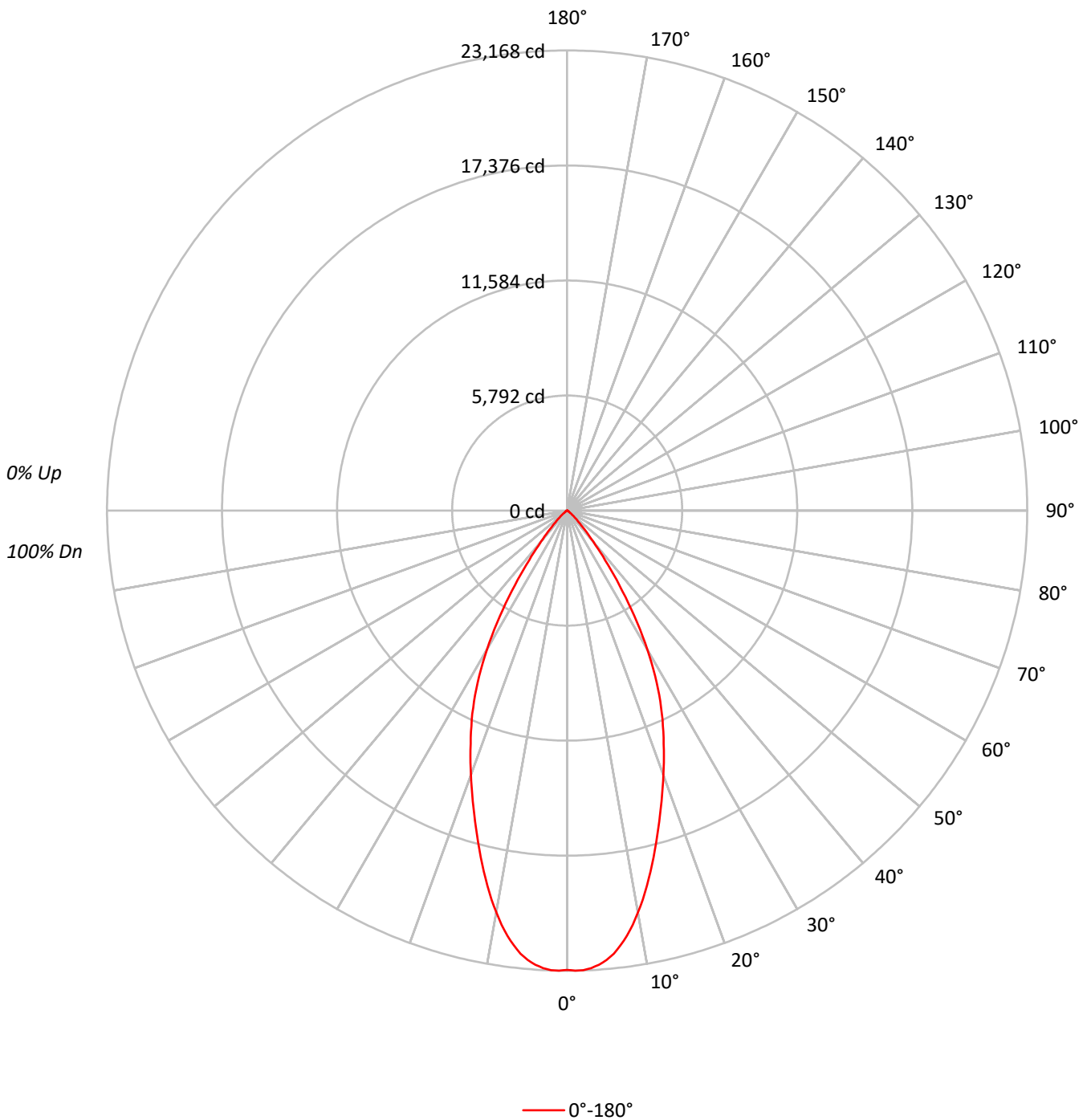
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	713053
5°	703119
10°	643255
15°	552287
20°	465082
25°	384261
30°	288229
35°	171804
40°	81856
45°	35659
50°	16172
55°	7123
60°	4089
65°	2430
70°	2497
75°	0
80°	977
85°	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2098.8	13.2
10°-20°	4815.3	30.3
20°-30°	5115.7	32.2
30°-40°	2918.8	18.4
40°-50°	723.7	4.6
50°-60°	142.3	0.9
60°-70°	43.0	0.3
70°-80°	10.1	0.1
80°-90°	8.3	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°	12029.8	75.8
0°-40°	14948.6	94.2
0°-60°	15814.6	99.6
0°-90°	15876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15876.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23124	
5°	22715	###
15°	17300	4815
25°	11294	5116
35°	4564	2919
45°	818	724
55°	132	142
65°	33	43
75°	0	10
85°	11	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	23123.8
1°	23168.1
2°	23151.5
3°	23068.6
4°	22925.0
5°	22714.9
6°	22438.8
7°	22057.4
8°	21620.8
9°	21107.2
10°	20543.4
11°	19946.9
12°	19305.7
13°	18653.8
14°	17985.2
15°	17300.0
16°	16653.6
17°	16001.6
18°	15388.2
19°	14764.0
20°	14172.7
22.5°	12708.3
25°	11293.8
27.5°	9774.5
30°	8094.8
32.5°	6293.3
35°	4563.9
37.5°	3143.9
40°	2033.5
42.5°	1287.5
45°	817.7
47.5°	536.1
50°	337.1
52.5°	204.6
55°	132.5
57.5°	105.0
60°	66.3
62.5°	60.7
65°	33.3
67.5°	33.3
70°	27.7
72.5°	16.6
75°	0.0
77.5°	5.5
80°	5.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	11.1
85°	11.1
87.5°	5.5
90°	0.0

(END OF REPORT)