

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: P250020

Luminaire Tested: **LD8B175D010 ER8B175950 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250020
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 ER8B175950 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14453.9 lumens
Efficiency: N/A
Efficacy: 81.6 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

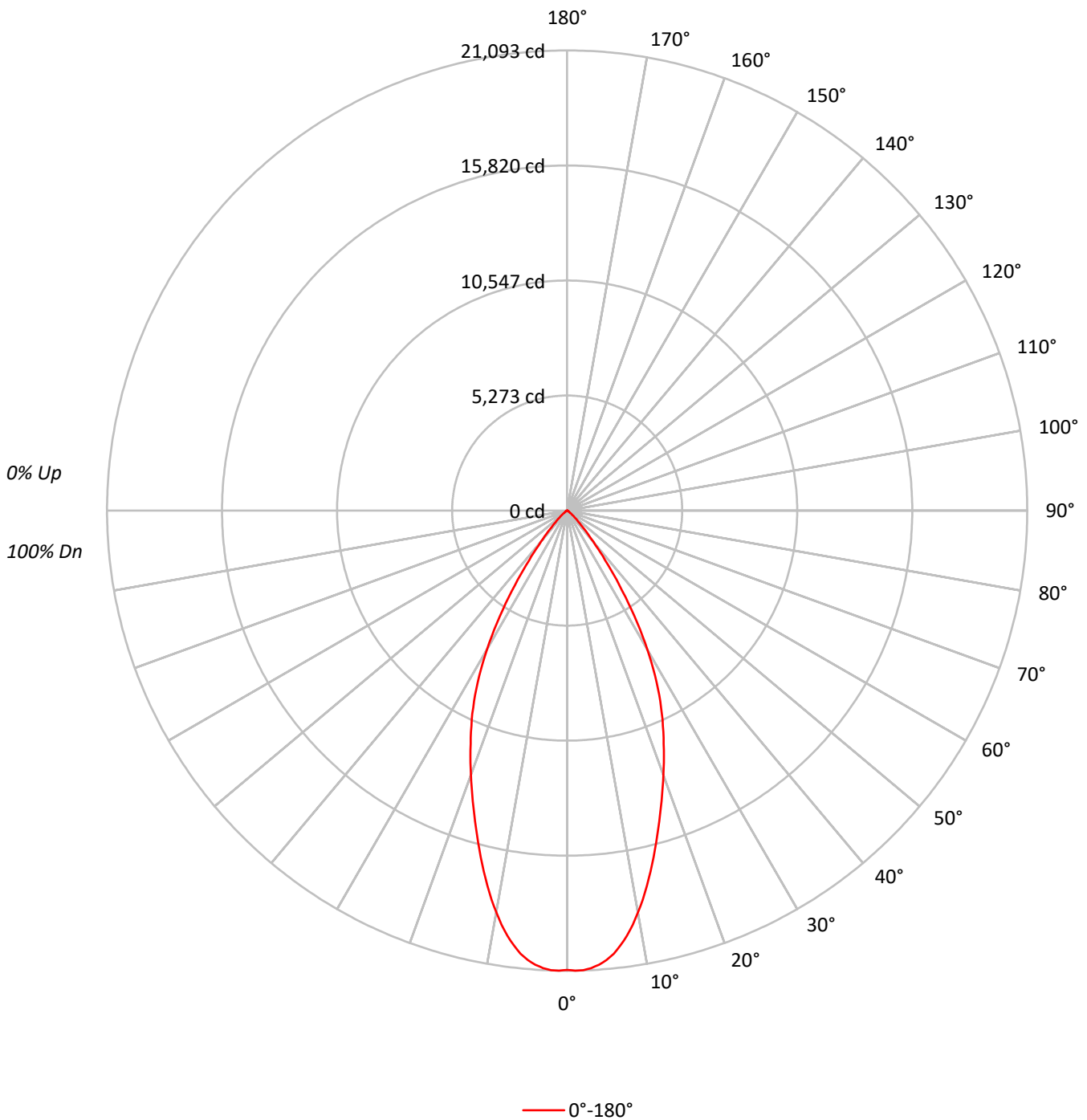
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	649185
5°	640140
10°	585638
15°	502817
20°	423426
25°	349846
30°	262411
35°	156415
40°	74522
45°	32467
50°	14723
55°	6484
60°	3719
65°	2211
70°	2272
75°	0
80°	888
85°	3573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1910.8	13.2
10°-20°	4384.0	30.3
20°-30°	4657.5	32.2
30°-40°	2657.3	18.4
40°-50°	658.9	4.6
50°-60°	129.5	0.9
60°-70°	39.1	0.3
70°-80°	9.2	0.1
80°-90°	7.5	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°	10952.3	75.8
0°-40°	13609.6	94.2
0°-60°	14398.1	99.6
0°-90°	14453.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14453.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21053	
5°	20680	###
15°	15750	4384
25°	10282	4658
35°	4155	2657
45°	744	659
55°	121	130
65°	30	39
75°	0	9
85°	10	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	21052.6
1°	21092.9
2°	21077.8
3°	21002.3
4°	20871.6
5°	20680.3
6°	20429.0
7°	20081.7
8°	19684.3
9°	19216.6
10°	18703.3
11°	18160.2
12°	17576.5
13°	16983.0
14°	16374.3
15°	15750.4
16°	15161.9
17°	14568.4
18°	14009.9
19°	13441.6
20°	12903.3
22.5°	11570.1
25°	10282.3
27.5°	8899.0
30°	7369.7
32.5°	5729.6
35°	4155.1
37.5°	2862.3
40°	1851.3
42.5°	1172.2
45°	744.5
47.5°	488.1
50°	306.9
52.5°	186.2
55°	120.6
57.5°	95.6
60°	60.3
62.5°	55.3
65°	30.3
67.5°	30.3
70°	25.2
72.5°	15.1
75°	0.0
77.5°	5.0
80°	5.0



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	10.1
85°	10.1
87.5°	5.0
90°	0.0

(END OF REPORT)