

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: P249978

Luminaire Tested: **LD8B175D010 ER8B175840 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249978
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 ER8B175840 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15572.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

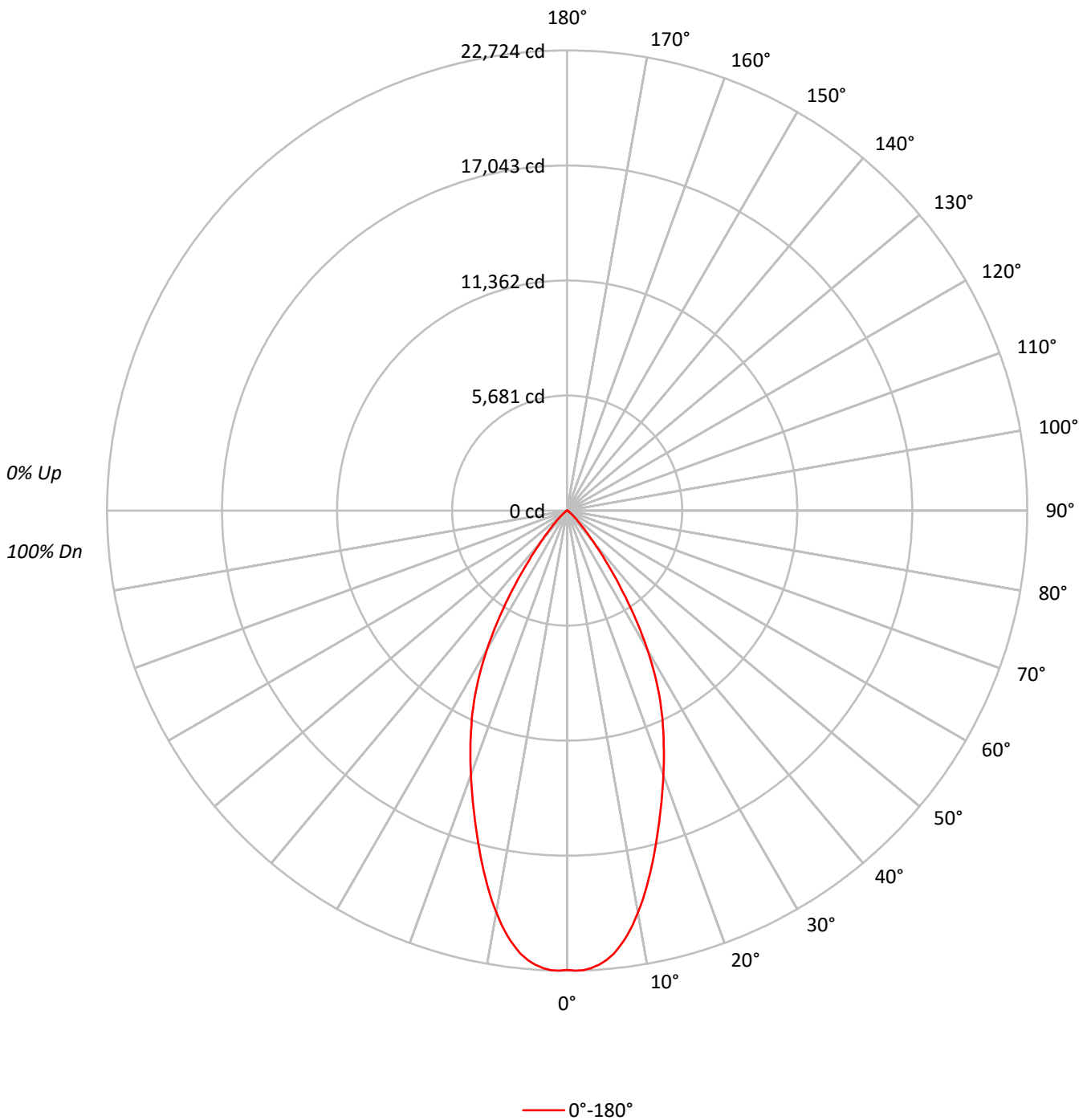
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	699398
5°	689654
10°	630937
15°	541711
20°	456176
25°	376905
30°	282710
35°	168514
40°	80287
45°	34979
50°	15860
55°	6989
60°	4009
65°	2379
70°	2452
75°	0
80°	959
85°	3856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2058.6	13.2
10°-20°	4723.1	30.3
20°-30°	5017.8	32.2
30°-40°	2862.9	18.4
40°-50°	709.8	4.6
50°-60°	139.6	0.9
60°-70°	42.1	0.3
70°-80°	10.0	0.1
80°-90°	8.1	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°	11799.5	75.8
0°-40°	14662.3	94.2
0°-60°	15511.8	99.6
0°-90°	15572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15572.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22681	
5°	22280	###
15°	16969	4723
25°	11078	5018
35°	4476	2863
45°	802	710
55°	130	140
65°	33	42
75°	0	10
85°	11	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	22681.0
1°	22724.5
2°	22708.1
3°	22626.9
4°	22486.0
5°	22279.9
6°	22009.1
7°	21635.0
8°	21206.8
9°	20703.0
10°	20150.0
11°	19564.9
12°	18936.1
13°	18296.6
14°	17640.8
15°	16968.7
16°	16334.7
17°	15695.2
18°	15093.5
19°	14481.3
20°	13901.3
22.5°	12465.0
25°	11077.6
27.5°	9587.4
30°	7939.8
32.5°	6172.8
35°	4476.5
37.5°	3083.7
40°	1994.5
42.5°	1262.9
45°	802.1
47.5°	525.8
50°	330.6
52.5°	200.6
55°	130.0
57.5°	103.0
60°	65.0
62.5°	59.5
65°	32.6
67.5°	32.6
70°	27.2
72.5°	16.3
75°	0.0
77.5°	5.4
80°	5.4



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	10.9
85°	10.9
87.5°	5.4
90°	0.0

(END OF REPORT)