

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: P249957

Luminaire Tested: **LD8B175D010 ER8B175827 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249957
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 ER8B175827 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14704.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

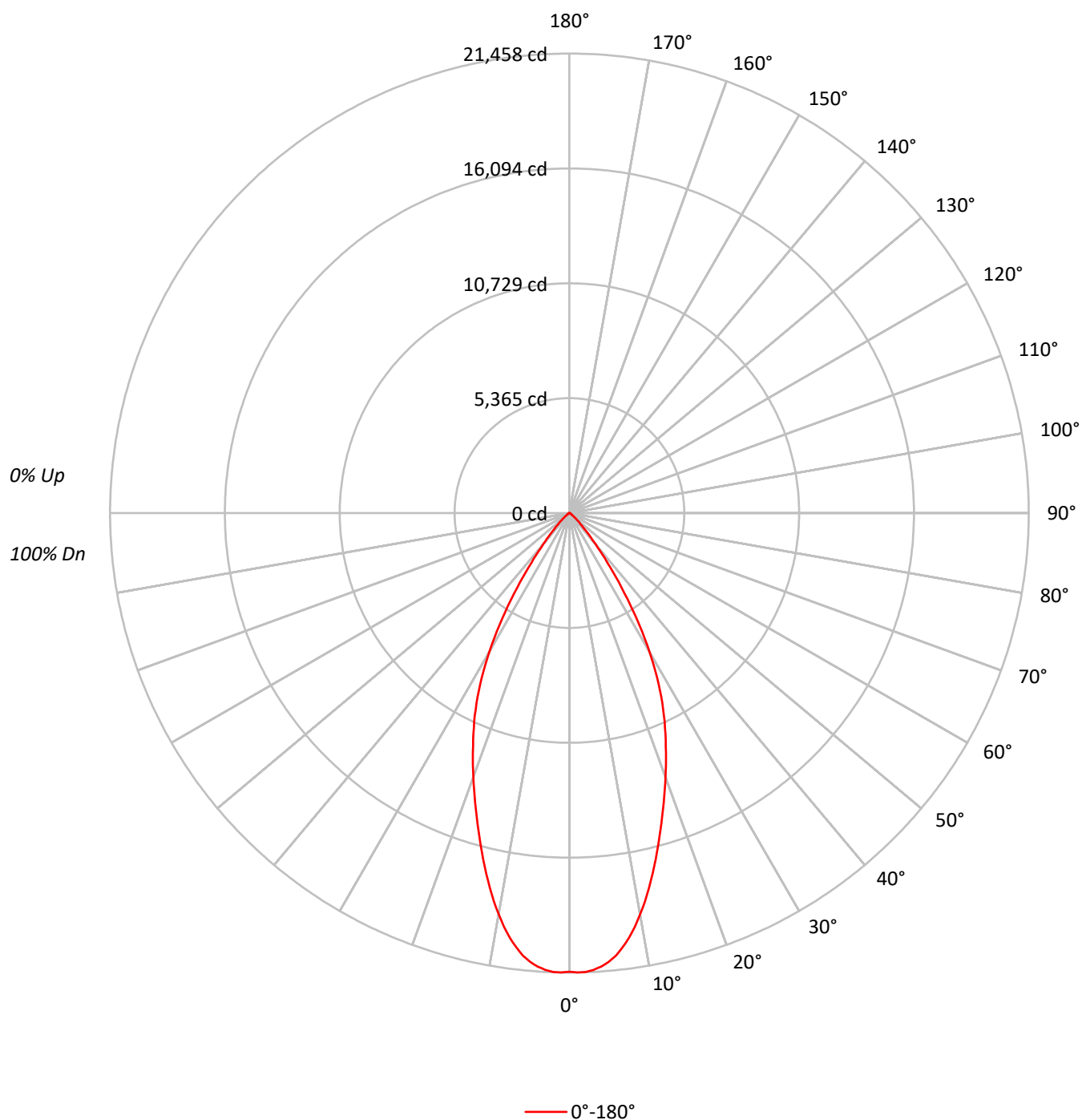
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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°	660412
5°	651212
10°	595767
15°	511517
20°	430750
25°	355896
30°	266951
35°	159122
40°	75810
45°	33025
50°	14977
55°	6597
60°	3787
65°	2247
70°	2317
75°	0
80°	906
85°	3644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1943.8	13.2
10°-20°	4459.9	30.3
20°-30°	4738.1	32.2
30°-40°	2703.3	18.4
40°-50°	670.3	4.6
50°-60°	131.8	0.9
60°-70°	39.8	0.3
70°-80°	9.4	0.1
80°-90°	7.7	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°	11141.8	75.8
0°-40°	13845.0	94.2
0°-60°	14647.1	99.6
0°-90°	14704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14704.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21417	
5°	21038	###
15°	16023	4460
25°	10460	4738
35°	4227	2703
45°	757	670
55°	123	132
65°	31	40
75°	0	9
85°	10	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	21416.7
1°	21457.8
2°	21442.4
3°	21365.6
4°	21232.6
5°	21038.0
6°	20782.3
7°	20429.1
8°	20024.7
9°	19549.0
10°	19026.8
11°	18474.3
12°	17880.5
13°	17276.7
14°	16657.5
15°	16022.9
16°	15424.2
17°	14820.3
18°	14252.2
19°	13674.1
20°	13126.5
22.5°	11770.2
25°	10460.1
27.5°	9053.0
30°	7497.2
32.5°	5828.7
35°	4227.0
37.5°	2911.8
40°	1883.3
42.5°	1192.5
45°	757.3
47.5°	496.5
50°	312.2
52.5°	189.5
55°	122.7
57.5°	97.3
60°	61.4
62.5°	56.2
65°	30.8
67.5°	30.8
70°	25.7
72.5°	15.4
75°	0.0
77.5°	5.1
80°	5.1



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	10.3
85°	10.3
87.5°	5.1
90°	0.0

(END OF REPORT)