

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: METALUX

Report Number: P225789

Luminaire Tested: **22GR-LD5-20-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

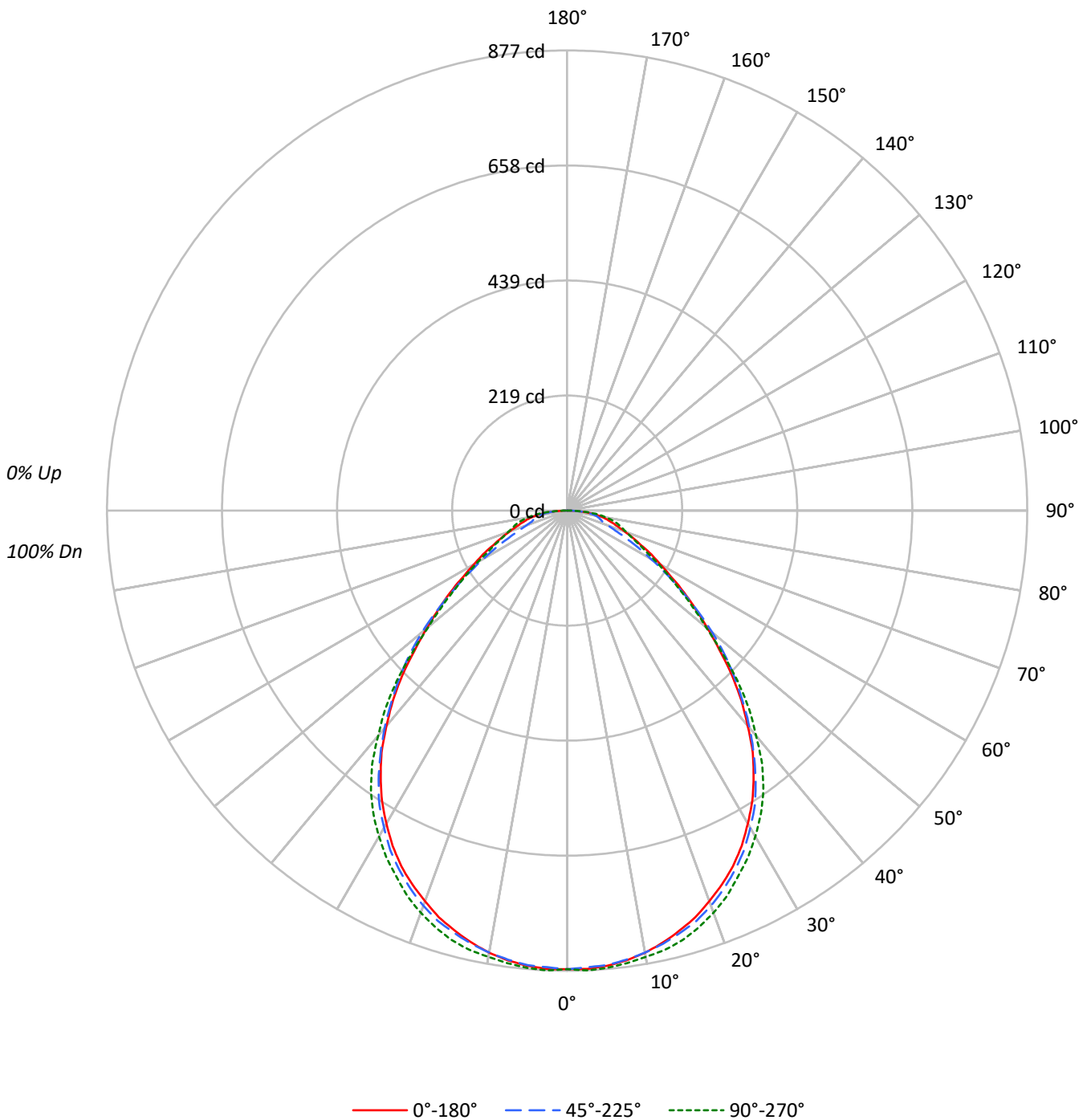
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2799	2799	2799
5°	2799	2795	2812
10°	2783	2781	2809
15°	2747	2762	2811
20°	2700	2732	2780
25°	2642	2672	2721
30°	2547	2582	2652
35°	2422	2449	2549
40°	2239	2263	2343
45°	2011	2048	2080
50°	1739	1801	1721
55°	1517	1477	1458
60°	1314	1183	1263
65°	1175	929	1134
70°	1090	770	1119
75°	1088	813	1242
80°	1202	1024	1400
85°	1257	1110	1580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	4.3
10°-20°	235.5	12.3
20°-30°	348.4	18.3
30°-40°	393.1	20.6
40°-50°	346.5	18.2
50°-60°	237.7	12.5
60°-70°	140.3	7.4
70°-80°	87.5	4.6
80°-90°	36.5	1.9
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°	666.6	34.9
0°-40°	1059.7	55.5
0°-60°	1644.0	86.2
0°-90°	1908.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	871	869	870	873	875	83
15°	829	830	833	843	848	234
25°	748	750	756	766	770	343
35°	619	625	626	642	652	386
45°	444	446	452	455	459	341
55°	272	265	265	256	261	244
65°	155	136	123	142	150	156
75°	88	79	66	92	100	94
85°	34	32	30	40	43	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.0	874.0	874.0	874.0	874.0
2.5°	874.3	872.1	871.2	874.8	877.1
5°	870.8	869.0	869.5	872.6	874.8
7.5°	864.6	863.2	863.2	867.7	870.0
10°	855.7	855.3	855.3	860.6	863.7
12.5°	843.3	843.8	845.5	852.6	857.9
15°	828.6	829.6	833.1	843.3	847.8
17.5°	812.6	812.6	819.7	827.7	833.1
20°	792.2	793.5	801.5	810.4	815.7
22.5°	771.3	773.6	780.2	790.4	795.3
25°	747.8	750.5	756.2	766.0	770.0
27.5°	720.3	723.8	730.0	737.2	745.6
30°	688.8	694.1	698.1	707.8	717.2
32.5°	656.7	661.7	666.1	676.3	687.0
35°	619.4	624.8	626.5	641.6	651.9
37.5°	581.3	583.5	584.4	599.5	610.6
40°	535.5	540.0	541.4	553.3	560.4
42.5°	491.6	493.3	496.0	504.9	513.3
45°	444.1	446.3	452.1	454.7	459.2
47.5°	394.3	400.9	407.7	399.2	399.7
50°	349.1	354.4	361.5	345.5	345.5
52.5°	308.6	311.3	311.8	298.4	301.1
55°	271.7	265.1	264.6	255.8	261.1
57.5°	234.9	226.0	223.0	220.2	226.5
60°	205.1	189.2	184.7	188.7	197.2
62.5°	180.7	160.3	151.9	162.1	169.6
65°	155.0	136.3	122.6	141.7	149.7
67.5°	135.0	117.2	99.5	126.6	132.3
70°	116.4	102.6	82.2	115.0	119.5
72.5°	101.3	90.5	71.1	103.9	109.2
75°	87.9	79.1	65.7	91.9	100.4
77.5°	77.3	67.5	61.2	79.4	89.7
80°	65.2	55.5	55.5	66.6	75.9
82.5°	51.5	43.5	44.9	54.1	60.9
85°	34.2	31.9	30.2	39.5	43.0
87.5°	17.3	17.7	16.0	20.4	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)