

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: P225816

Luminaire Tested: **22GR-LD5-20-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F1-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1913.7 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

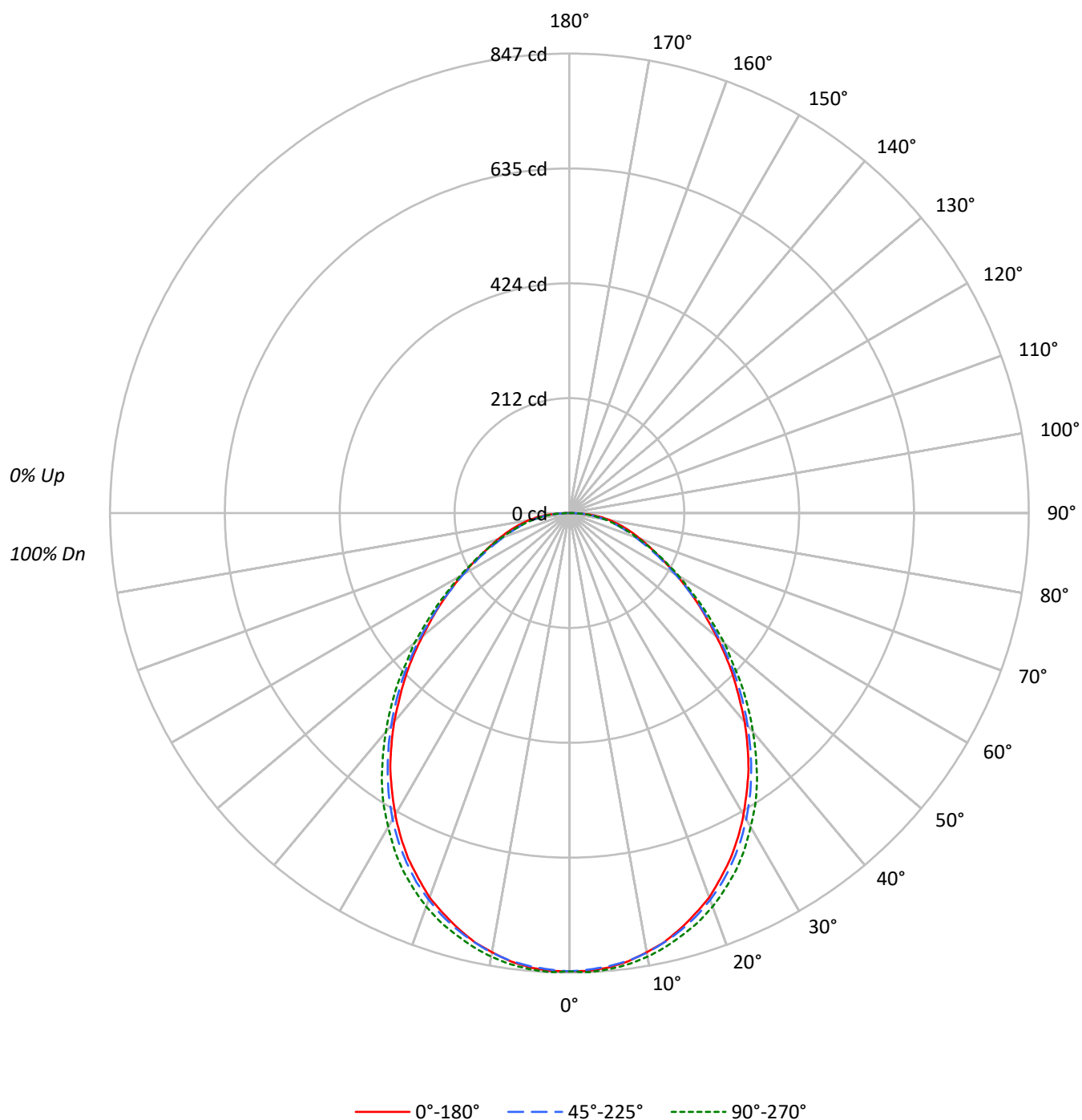
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47		
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42		
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38		
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2706	2706	2706
5°	2702	2695	2713
10°	2673	2676	2701
15°	2628	2638	2670
20°	2570	2586	2631
25°	2483	2511	2567
30°	2374	2410	2470
35°	2251	2284	2358
40°	2101	2136	2202
45°	1938	1976	2035
50°	1763	1796	1859
55°	1602	1615	1664
60°	1454	1442	1496
65°	1337	1300	1353
70°	1299	1204	1249
75°	1314	1179	1195
80°	1400	1206	1221
85°	1547	1290	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	4.2
10°-20°	224.6	11.7
20°-30°	327.4	17.1
30°-40°	366.0	19.1
40°-50°	336.6	17.6
50°-60°	260.8	13.6
60°-70°	174.8	9.1
70°-80°	104.6	5.5
80°-90°	39.1	2.0
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°	631.8	33.0
0°-40°	997.8	52.1
0°-60°	1595.2	83.4
0°-90°	1913.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	841	839	838	842	844	80
15°	793	794	796	802	805	223
25°	703	704	711	721	726	323
35°	576	577	584	596	603	359
45°	428	429	436	443	449	330
55°	287	288	289	294	298	258
65°	176	175	172	173	179	177
75°	106	102	95	94	97	113
85°	42	43	35	33	35	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.9	844.9	844.9	844.9	844.9
2.5°	844.5	842.8	842.3	844.9	847.1
5°	840.6	838.7	838.4	841.8	844.0
7.5°	833.1	831.7	832.2	835.7	838.7
10°	822.1	821.6	823.0	827.4	830.5
12.5°	809.8	808.9	810.3	816.0	819.0
15°	792.7	793.6	795.8	801.9	805.4
17.5°	773.8	774.7	778.7	784.8	790.5
20°	754.0	753.7	758.8	767.2	772.0
22.5°	728.2	730.4	736.5	745.3	750.1
25°	702.7	704.4	710.6	720.7	726.5
27.5°	673.3	676.4	683.0	692.6	699.2
30°	642.1	644.7	651.8	662.8	668.0
32.5°	608.3	611.9	619.3	631.2	637.7
35°	575.8	576.8	584.2	595.6	603.1
37.5°	539.0	541.2	548.2	560.9	564.9
40°	502.6	504.3	510.9	521.4	526.7
42.5°	463.5	466.6	473.6	481.5	487.7
45°	428.0	429.2	436.3	442.9	449.4
47.5°	390.7	391.9	398.1	405.1	407.8
50°	353.8	355.5	360.4	367.4	373.1
52.5°	319.5	320.4	322.6	330.5	333.2
55°	287.0	287.5	289.3	293.7	298.0
57.5°	256.3	255.9	255.4	259.4	263.4
60°	227.0	226.0	225.1	228.2	233.5
62.5°	201.0	200.1	196.7	200.1	204.6
65°	176.4	175.1	171.6	173.4	178.6
67.5°	157.2	154.5	148.8	151.0	155.0
70°	138.7	135.2	128.6	130.4	133.4
72.5°	122.5	117.2	111.5	111.9	115.0
75°	106.2	101.8	95.3	94.4	96.6
77.5°	90.8	87.4	80.4	79.0	80.7
80°	75.9	72.4	65.4	62.8	66.2
82.5°	59.7	58.3	50.5	48.7	50.1
85°	42.1	42.6	35.1	32.9	34.7
87.5°	21.5	22.4	18.0	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)