

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: P225820

Luminaire Tested: **22GR-LD5-36-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225820
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-LD5-36-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: 3370.7 lumens
Efficiency: N/A
Efficacy: 97.5 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

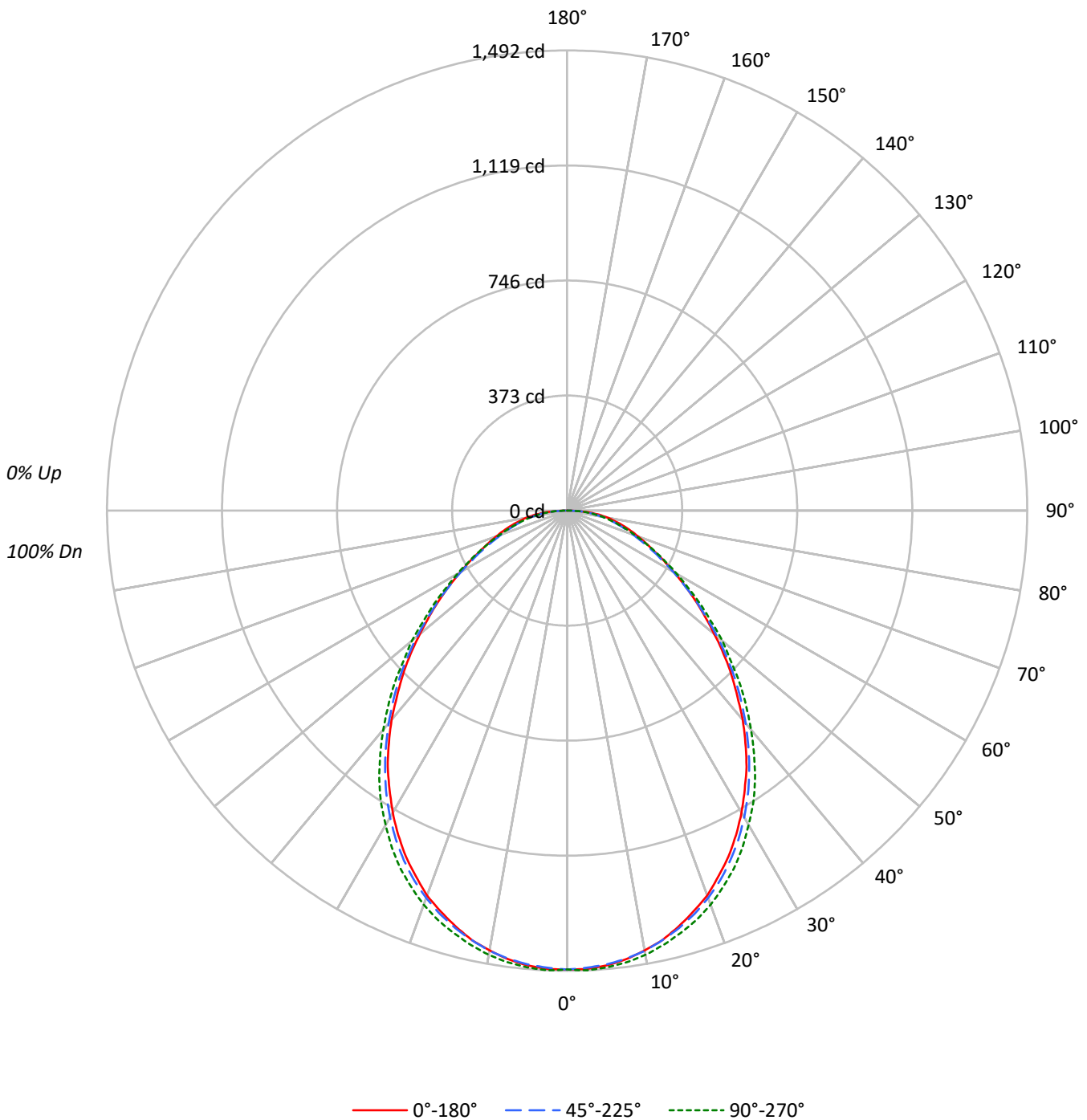
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4766	4766	4766
5°	4759	4747	4779
10°	4709	4714	4756
15°	4629	4647	4703
20°	4526	4555	4634
25°	4373	4423	4521
30°	4182	4245	4351
35°	3965	4023	4153
40°	3701	3762	3878
45°	3414	3480	3585
50°	3104	3162	3274
55°	2823	2844	2931
60°	2560	2540	2634
65°	2355	2291	2385
70°	2287	2121	2201
75°	2315	2075	2105
80°	2468	2125	2154
85°	2730	2274	2245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	4.2
10°-20°	395.6	11.7
20°-30°	576.7	17.1
30°-40°	644.7	19.1
40°-50°	592.9	17.6
50°-60°	459.3	13.6
60°-70°	307.9	9.1
70°-80°	184.2	5.5
80°-90°	68.9	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°	1112.7	33.0
0°-40°	1757.4	52.1
0°-60°	2809.6	83.4
0°-90°	3370.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1480	1477	1477	1483	1487	140
15°	1396	1398	1402	1412	1419	393
25°	1238	1241	1252	1269	1280	568
35°	1014	1016	1029	1049	1062	632
45°	754	756	768	780	792	580
55°	506	506	509	517	525	454
65°	311	308	302	305	315	313
75°	187	179	168	166	170	198
85°	74	75	62	58	61	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.1	1488.1	1488.1	1488.1	1488.1
2.5°	1487.4	1484.3	1483.5	1488.1	1492.0
5°	1480.4	1477.3	1476.6	1482.8	1486.6
7.5°	1467.3	1464.9	1465.7	1471.9	1477.3
10°	1448.0	1447.2	1449.5	1457.3	1462.6
12.5°	1426.3	1424.8	1427.1	1437.2	1442.5
15°	1396.1	1397.7	1401.6	1412.4	1418.6
17.5°	1362.9	1364.5	1371.5	1382.2	1392.3
20°	1328.1	1327.3	1336.6	1351.4	1359.8
22.5°	1282.6	1286.4	1297.2	1312.7	1321.1
25°	1237.7	1240.8	1251.6	1269.4	1279.5
27.5°	1185.9	1191.3	1202.9	1219.9	1231.5
30°	1131.0	1135.7	1148.0	1167.3	1176.6
32.5°	1071.4	1077.6	1090.8	1111.7	1123.3
35°	1014.3	1015.8	1028.9	1049.0	1062.2
37.5°	949.3	953.2	965.6	988.0	994.9
40°	885.2	888.3	899.8	918.4	927.7
42.5°	816.4	821.7	834.1	848.0	858.9
45°	753.8	756.0	768.4	780.1	791.6
47.5°	688.1	690.3	701.2	713.5	718.2
50°	623.1	626.2	634.7	647.1	657.1
52.5°	562.8	564.4	568.2	582.1	586.8
55°	505.6	506.3	509.4	517.2	524.9
57.5°	451.5	450.7	449.9	456.9	463.8
60°	399.7	398.1	396.6	402.0	411.2
62.5°	354.1	352.5	346.3	352.5	360.3
65°	310.8	308.5	302.3	305.4	314.7
67.5°	276.7	272.1	262.1	265.9	272.9
70°	244.2	238.1	226.5	229.6	235.1
72.5°	215.7	206.4	196.4	197.1	202.6
75°	187.1	179.4	167.7	166.2	170.1
77.5°	160.1	153.9	141.5	139.1	142.2
80°	133.8	127.6	115.2	110.6	116.8
82.5°	105.1	102.8	88.9	85.8	88.1
85°	74.3	75.0	61.9	58.0	61.1
87.5°	37.9	39.4	31.7	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)