

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: P292048

Luminaire Tested: **22GR-LD5-36-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3075.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

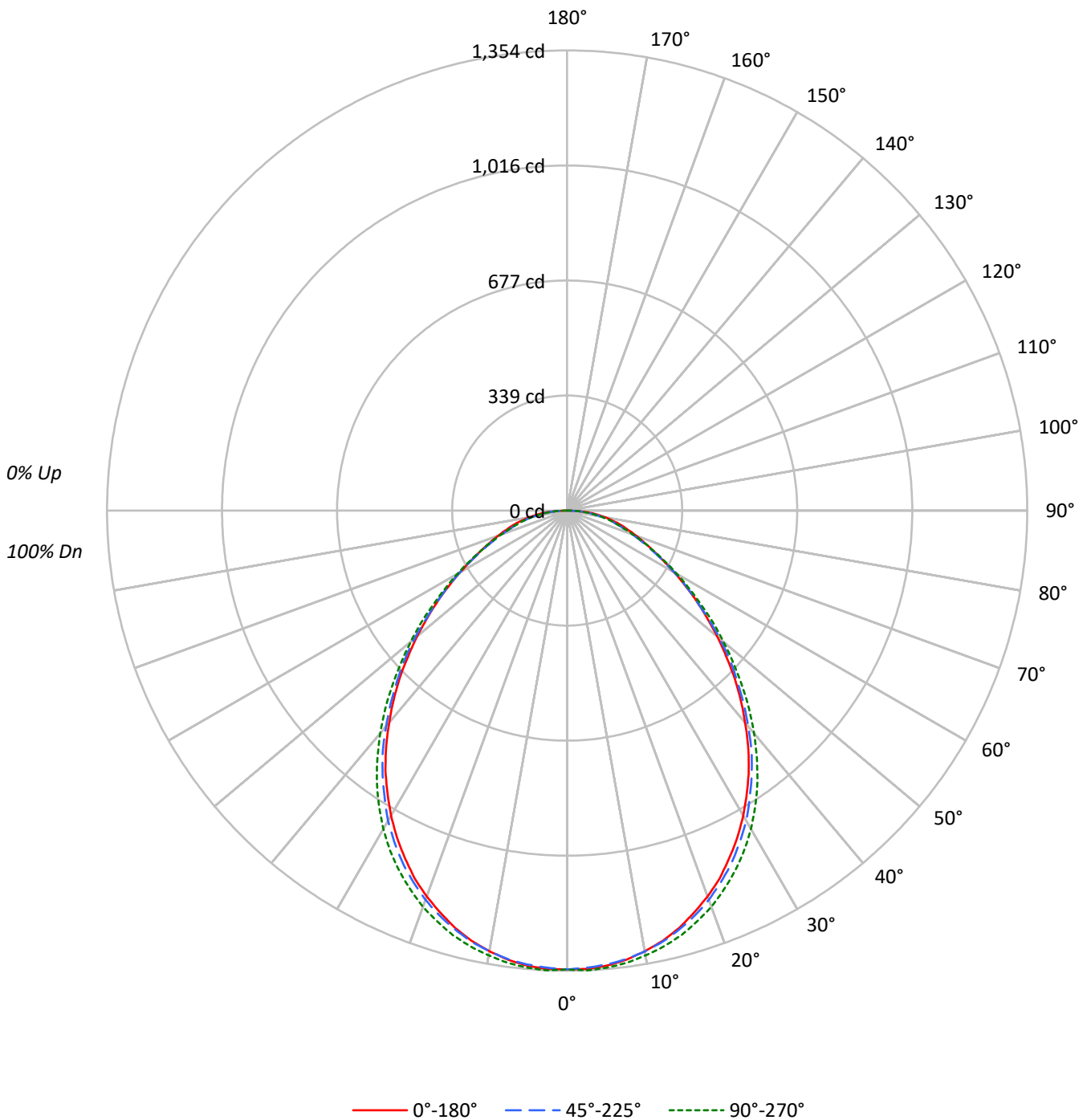
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	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	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	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°	3633	3633	3633
5°	3631	3622	3646
10°	3597	3599	3632
15°	3542	3554	3606
20°	3459	3490	3553
25°	3352	3398	3472
30°	3219	3274	3361
35°	3061	3110	3207
40°	2862	2910	3005
45°	2650	2691	2770
50°	2413	2452	2515
55°	2179	2186	2250
60°	1955	1962	2009
65°	1781	1745	1785
70°	1696	1600	1628
75°	1706	1543	1550
80°	1770	1559	1548
85°	1939	1652	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	4.1
10°-20°	360.3	11.7
20°-30°	527.3	17.1
30°-40°	592.9	19.3
40°-50°	546.7	17.8
50°-60°	421.4	13.7
60°-70°	278.1	9.0
70°-80°	161.8	5.3
80°-90°	58.9	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°	1015.1	33.0
0°-40°	1608.0	52.3
0°-60°	2576.1	83.8
0°-90°	3075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1344	1341	1341	1347	1350	127
15°	1272	1272	1276	1287	1294	358
25°	1129	1134	1144	1160	1169	519
35°	932	936	947	966	976	581
45°	696	697	707	721	728	536
55°	464	464	466	474	480	417
65°	280	278	274	276	280	281
75°	164	157	148	146	149	173
85°	63	62	54	49	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.9	1349.9	1349.9	1349.9	1349.9
2.5°	1349.9	1347.1	1346.4	1351.4	1354.2
5°	1344.2	1341.4	1340.7	1347.1	1349.9
7.5°	1332.8	1330.7	1331.4	1338.5	1342.1
10°	1316.4	1315.7	1317.1	1325.0	1329.2
12.5°	1297.1	1296.4	1299.3	1307.8	1313.5
15°	1271.5	1271.5	1275.7	1287.2	1294.3
17.5°	1240.8	1242.9	1249.3	1260.8	1268.6
20°	1208.0	1210.1	1218.7	1231.5	1240.8
22.5°	1171.6	1174.4	1183.0	1198.7	1206.5
25°	1128.8	1134.5	1144.5	1160.1	1169.4
27.5°	1084.5	1090.9	1100.2	1119.5	1128.0
30°	1036.0	1040.3	1053.8	1071.7	1081.7
32.5°	984.6	988.9	1000.3	1021.7	1030.3
35°	931.8	936.1	946.8	966.1	976.1
37.5°	874.7	878.3	891.2	906.1	916.8
40°	814.8	819.8	828.4	846.2	855.5
42.5°	756.3	758.4	767.7	785.6	792.7
45°	696.4	697.1	707.1	721.3	727.8
47.5°	634.3	635.7	647.9	656.4	662.8
50°	576.5	577.2	585.8	593.6	600.8
52.5°	518.7	518.7	523.0	531.6	540.8
55°	464.5	463.8	465.9	473.8	479.5
57.5°	413.1	412.4	415.3	420.3	424.5
60°	363.2	361.7	364.6	367.5	373.2
62.5°	318.9	320.4	316.8	321.1	325.4
65°	279.7	278.3	274.0	276.1	280.4
67.5°	246.2	244.0	236.9	238.3	243.3
70°	215.5	211.2	203.3	203.3	206.9
72.5°	187.6	183.4	173.4	174.1	175.5
75°	164.1	157.0	148.4	145.6	149.1
77.5°	138.4	132.7	124.9	122.7	124.1
80°	114.2	109.9	100.6	97.7	99.9
82.5°	90.6	87.0	76.3	74.2	74.9
85°	62.8	62.1	53.5	49.2	50.7
87.5°	33.5	34.2	27.8	25.0	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)