

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: P292116

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292116
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-LD5-43-F125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3412.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

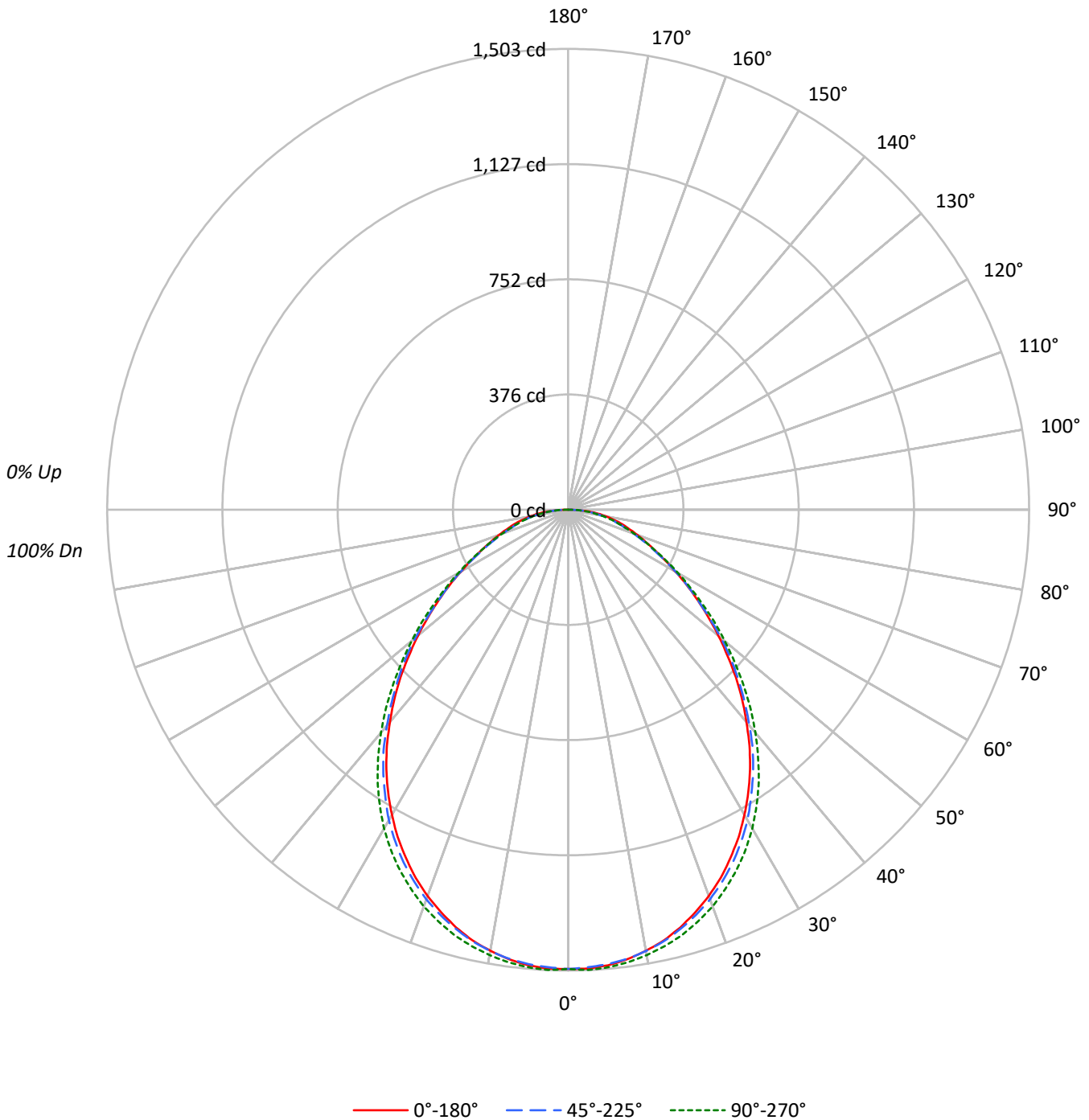
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4031	4031	4031
5°	4029	4018	4046
10°	3991	3994	4030
15°	3930	3943	4001
20°	3838	3872	3943
25°	3719	3771	3853
30°	3572	3633	3729
35°	3397	3451	3558
40°	3176	3229	3334
45°	2941	2986	3073
50°	2678	2721	2791
55°	2418	2426	2496
60°	2169	2178	2229
65°	1976	1936	1981
70°	1881	1775	1806
75°	1893	1712	1721
80°	1963	1729	1717
85°	2152	1834	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	4.1
10°-20°	399.8	11.7
20°-30°	585.1	17.1
30°-40°	657.8	19.3
40°-50°	606.7	17.8
50°-60°	467.6	13.7
60°-70°	308.5	9.0
70°-80°	179.6	5.3
80°-90°	65.4	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°	1126.4	33.0
0°-40°	1784.2	52.3
0°-60°	2858.5	83.8
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1492	1488	1488	1495	1498	141
15°	1411	1411	1416	1428	1436	397
25°	1252	1259	1270	1287	1298	576
35°	1034	1039	1051	1072	1083	645
45°	773	774	785	800	808	595
55°	515	515	517	526	532	462
65°	310	309	304	306	311	311
75°	182	174	165	162	166	192
85°	70	69	59	55	56	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1497.9	1494.7	1493.9	1499.5	1502.6
5°	1491.5	1488.4	1487.6	1494.7	1497.9
7.5°	1478.9	1476.5	1477.3	1485.2	1489.2
10°	1460.7	1459.9	1461.5	1470.2	1474.9
12.5°	1439.3	1438.5	1441.7	1451.2	1457.5
15°	1410.8	1410.8	1415.5	1428.2	1436.1
17.5°	1376.8	1379.1	1386.3	1398.9	1407.6
20°	1340.3	1342.7	1352.2	1366.5	1376.8
22.5°	1300.0	1303.1	1312.6	1330.0	1338.8
25°	1252.5	1258.8	1269.9	1287.3	1297.6
27.5°	1203.4	1210.5	1220.8	1242.2	1251.7
30°	1149.5	1154.3	1169.3	1189.1	1200.2
32.5°	1092.5	1097.3	1110.0	1133.7	1143.2
35°	1034.0	1038.7	1050.6	1072.0	1083.0
37.5°	970.6	974.6	988.8	1005.4	1017.3
40°	904.1	909.7	919.2	938.9	949.2
42.5°	839.2	841.6	851.9	871.7	879.6
45°	772.7	773.5	784.6	800.4	807.5
47.5°	703.8	705.4	718.9	728.4	735.5
50°	639.7	640.5	650.0	658.7	666.6
52.5°	575.6	575.6	580.3	589.8	600.1
55°	515.4	514.6	517.0	525.7	532.0
57.5°	458.4	457.6	460.8	466.3	471.1
60°	403.0	401.4	404.6	407.7	414.1
62.5°	353.9	355.5	351.5	356.3	361.0
65°	310.3	308.8	304.0	306.4	311.1
67.5°	273.1	270.8	262.8	264.4	270.0
70°	239.1	234.3	225.6	225.6	229.6
72.5°	208.2	203.5	192.4	193.2	194.8
75°	182.1	174.2	164.7	161.5	165.5
77.5°	153.6	147.3	138.5	136.2	137.8
80°	126.7	121.9	111.6	108.5	110.8
82.5°	100.5	96.6	84.7	82.3	83.1
85°	69.7	68.9	59.4	54.6	56.2
87.5°	37.2	38.0	30.9	27.7	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)