

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: P292113

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292113
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-LD5-40-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3828.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

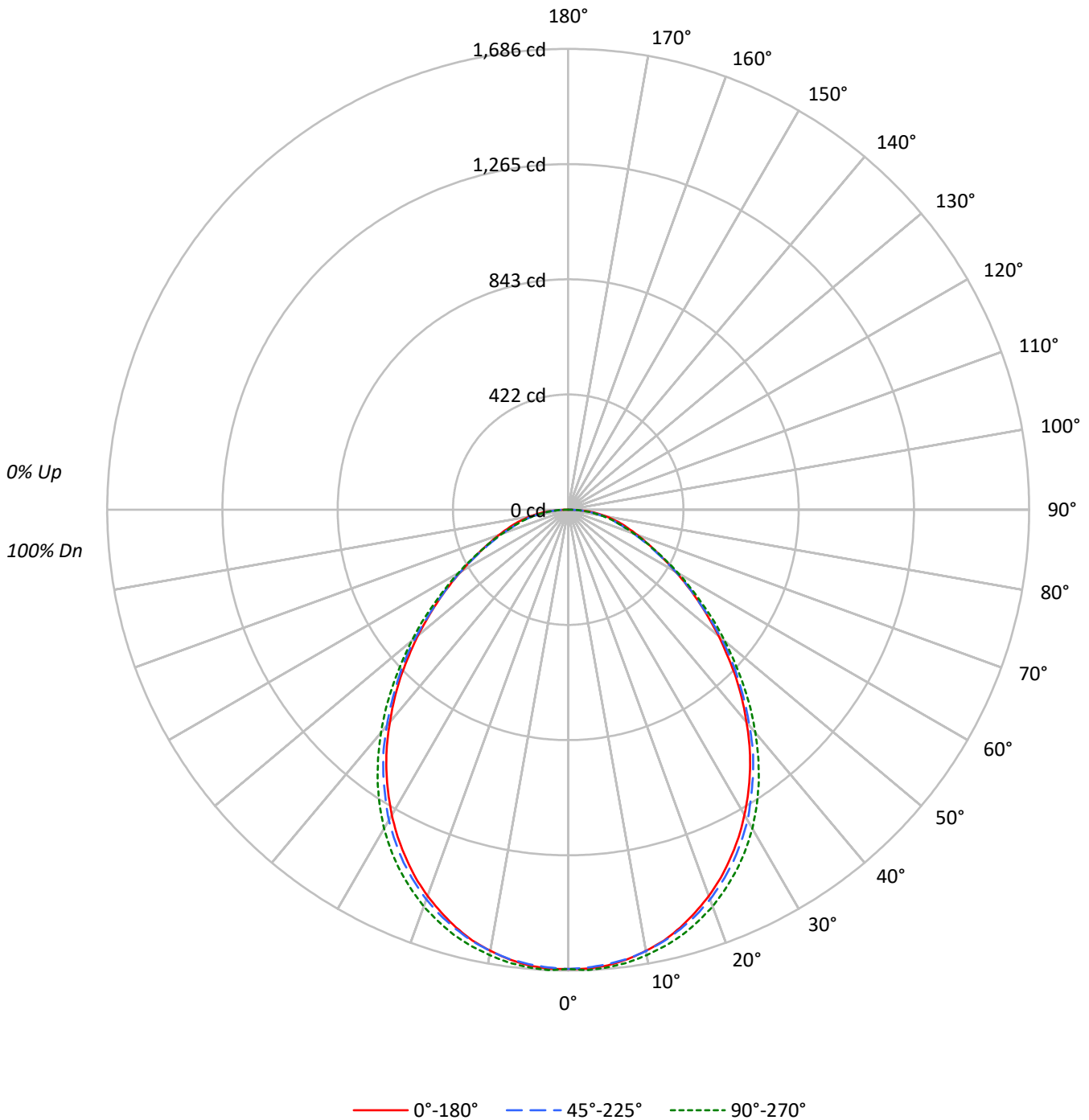
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4522	4522	4522
5°	4520	4508	4539
10°	4478	4480	4521
15°	4410	4424	4489
20°	4306	4344	4423
25°	4172	4230	4323
30°	4007	4076	4184
35°	3811	3872	3992
40°	3563	3622	3741
45°	3299	3350	3448
50°	3005	3053	3131
55°	2713	2721	2800
60°	2433	2443	2500
65°	2217	2172	2223
70°	2110	1991	2027
75°	2124	1920	1930
80°	2202	1940	1928
85°	2414	2056	1948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	4.1
10°-20°	448.5	11.7
20°-30°	656.4	17.1
30°-40°	738.0	19.3
40°-50°	680.6	17.8
50°-60°	524.6	13.7
60°-70°	346.2	9.0
70°-80°	201.5	5.3
80°-90°	73.4	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°	1263.7	33.0
0°-40°	2001.8	52.3
0°-60°	3207.0	83.8
0°-90°	3828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1680	1680	1680	1680	1680	
5°	1673	1670	1669	1677	1680	159
15°	1583	1583	1588	1602	1611	445
25°	1405	1412	1425	1444	1456	646
35°	1160	1165	1179	1203	1215	723
45°	867	868	880	898	906	668
55°	578	577	580	590	597	519
65°	348	346	341	344	349	349
75°	204	195	185	181	186	215
85°	78	77	67	61	63	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1680.5	1680.5	1680.5	1680.5	1680.5
2.5°	1680.5	1677.0	1676.1	1682.3	1685.8
5°	1673.4	1669.8	1669.0	1677.0	1680.5
7.5°	1659.2	1656.5	1657.4	1666.3	1670.7
10°	1638.8	1637.9	1639.6	1649.4	1654.7
12.5°	1614.8	1613.9	1617.4	1628.1	1635.2
15°	1582.8	1582.8	1588.1	1602.3	1611.2
17.5°	1544.6	1547.3	1555.3	1569.5	1579.3
20°	1503.8	1506.4	1517.1	1533.1	1544.6
22.5°	1458.5	1462.0	1472.7	1492.2	1502.0
25°	1405.2	1412.3	1424.7	1444.2	1455.8
27.5°	1350.1	1358.1	1369.6	1393.6	1404.3
30°	1289.7	1295.0	1311.9	1334.1	1346.5
32.5°	1225.7	1231.1	1245.3	1271.9	1282.6
35°	1160.0	1165.3	1178.7	1202.6	1215.1
37.5°	1089.0	1093.4	1109.4	1128.0	1141.4
40°	1014.3	1020.6	1031.2	1053.4	1065.0
42.5°	941.5	944.2	955.7	977.9	986.8
45°	866.9	867.8	880.2	898.0	906.0
47.5°	789.6	791.4	806.5	817.2	825.2
50°	717.7	718.6	729.2	739.0	747.9
52.5°	645.7	645.7	651.1	661.7	673.3
55°	578.2	577.3	580.0	589.8	596.9
57.5°	514.3	513.4	516.9	523.2	528.5
60°	452.1	450.3	453.9	457.4	464.5
62.5°	397.0	398.8	394.4	399.7	405.0
65°	348.2	346.4	341.1	343.7	349.1
67.5°	306.4	303.8	294.9	296.7	302.9
70°	268.2	262.9	253.1	253.1	257.6
72.5°	233.6	228.3	215.8	216.7	218.5
75°	204.3	195.4	184.7	181.2	185.6
77.5°	172.3	165.2	155.4	152.8	154.5
80°	142.1	136.8	125.2	121.7	124.4
82.5°	112.8	108.4	95.0	92.4	93.3
85°	78.2	77.3	66.6	61.3	63.1
87.5°	41.7	42.6	34.6	31.1	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)