

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: P292111

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292111
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

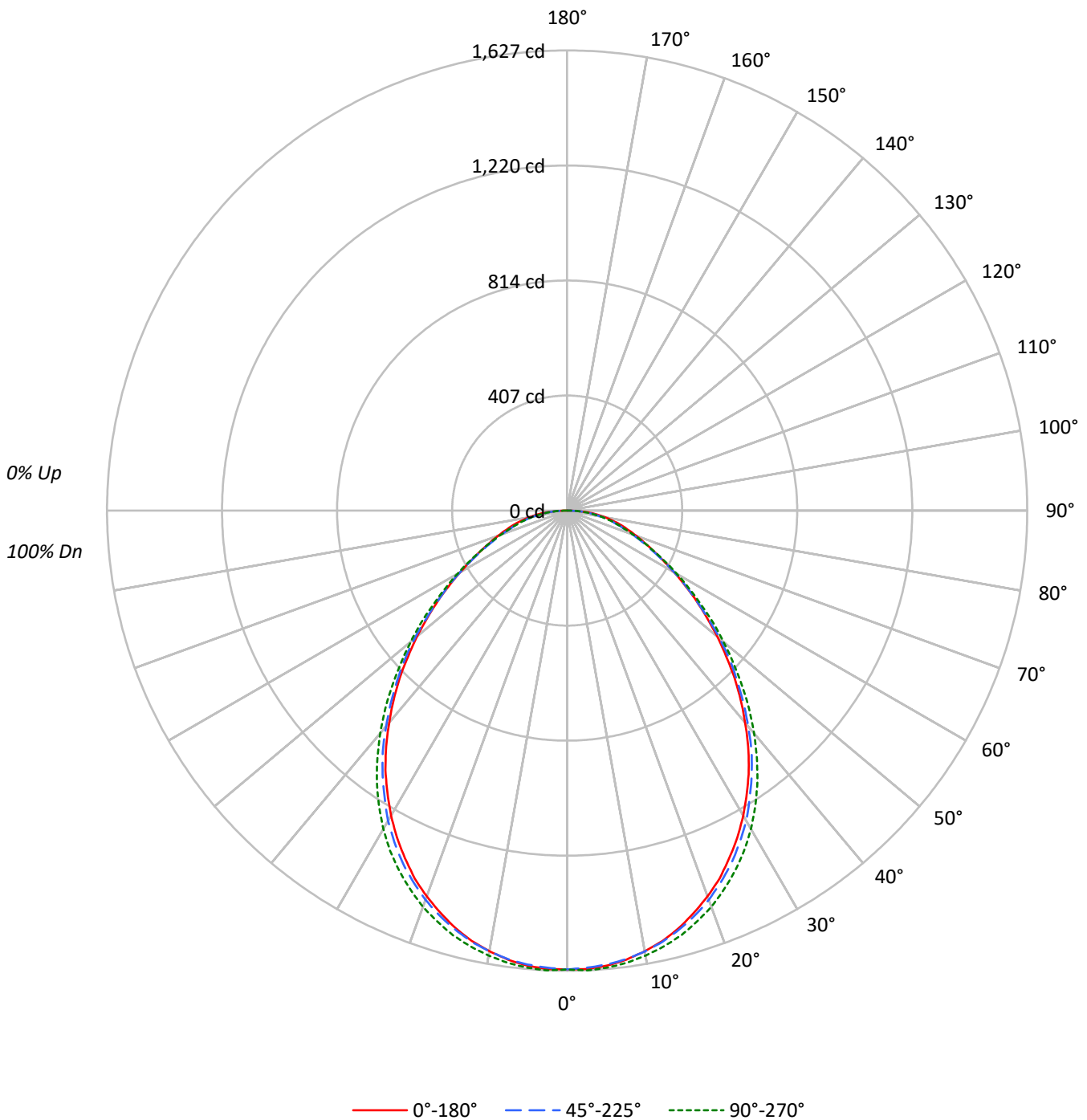
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4365	4365	4365
5°	4363	4352	4382
10°	4322	4325	4365
15°	4256	4271	4333
20°	4157	4194	4269
25°	4027	4083	4172
30°	3868	3935	4039
35°	3678	3737	3853
40°	3439	3497	3611
45°	3185	3233	3328
50°	2900	2947	3022
55°	2618	2627	2703
60°	2349	2358	2413
65°	2140	2096	2145
70°	2037	1922	1956
75°	2050	1854	1863
80°	2126	1874	1860
85°	2328	1985	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	4.1
10°-20°	432.9	11.7
20°-30°	633.6	17.1
30°-40°	712.4	19.3
40°-50°	657.0	17.8
50°-60°	506.4	13.7
60°-70°	334.1	9.0
70°-80°	194.5	5.3
80°-90°	70.8	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°	1219.8	33.0
0°-40°	1932.2	52.3
0°-60°	3095.6	83.8
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1615	1612	1611	1619	1622	153
15°	1528	1528	1533	1547	1555	430
25°	1356	1363	1375	1394	1405	624
35°	1120	1125	1138	1161	1173	698
45°	837	838	850	867	874	644
55°	558	557	560	569	576	501
65°	336	334	329	332	337	337
75°	197	189	178	175	179	208
85°	75	75	64	59	61	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1622.1	1618.7	1617.8	1623.8	1627.3
5°	1615.3	1611.8	1611.0	1618.7	1622.1
7.5°	1601.5	1599.0	1599.8	1608.4	1612.7
10°	1581.8	1581.0	1582.7	1592.1	1597.3
12.5°	1558.7	1557.8	1561.2	1571.5	1578.4
15°	1527.8	1527.8	1533.0	1546.7	1555.2
17.5°	1490.9	1493.5	1501.2	1515.0	1524.4
20°	1451.5	1454.1	1464.4	1479.8	1490.9
22.5°	1407.8	1411.2	1421.5	1440.4	1449.8
25°	1356.3	1363.2	1375.2	1394.1	1405.2
27.5°	1303.2	1310.9	1322.0	1345.2	1355.5
30°	1244.9	1250.0	1266.3	1287.8	1299.8
32.5°	1183.2	1188.3	1202.0	1227.7	1238.0
35°	1119.7	1124.9	1137.7	1160.9	1172.9
37.5°	1051.1	1055.4	1070.8	1088.8	1101.7
40°	979.1	985.1	995.4	1016.8	1028.0
42.5°	908.8	911.4	922.5	944.0	952.5
45°	836.8	837.6	849.6	866.8	874.5
47.5°	762.2	763.9	778.5	788.8	796.5
50°	692.7	693.6	703.9	713.3	721.9
52.5°	623.3	623.3	628.4	638.7	649.9
55°	558.1	557.3	559.9	569.3	576.1
57.5°	496.4	495.6	499.0	505.0	510.1
60°	436.4	434.7	438.1	441.5	448.4
62.5°	383.2	385.0	380.7	385.8	391.0
65°	336.1	334.4	329.2	331.8	336.9
67.5°	295.8	293.2	284.6	286.4	292.4
70°	258.9	253.8	244.3	244.3	248.6
72.5°	225.5	220.3	208.3	209.2	210.9
75°	197.2	188.6	178.3	174.9	179.2
77.5°	166.3	159.5	150.0	147.5	149.2
80°	137.2	132.0	120.9	117.5	120.0
82.5°	108.9	104.6	91.7	89.2	90.0
85°	75.4	74.6	64.3	59.2	60.9
87.5°	40.3	41.2	33.4	30.0	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)