

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: P292101

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292101
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-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3195.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

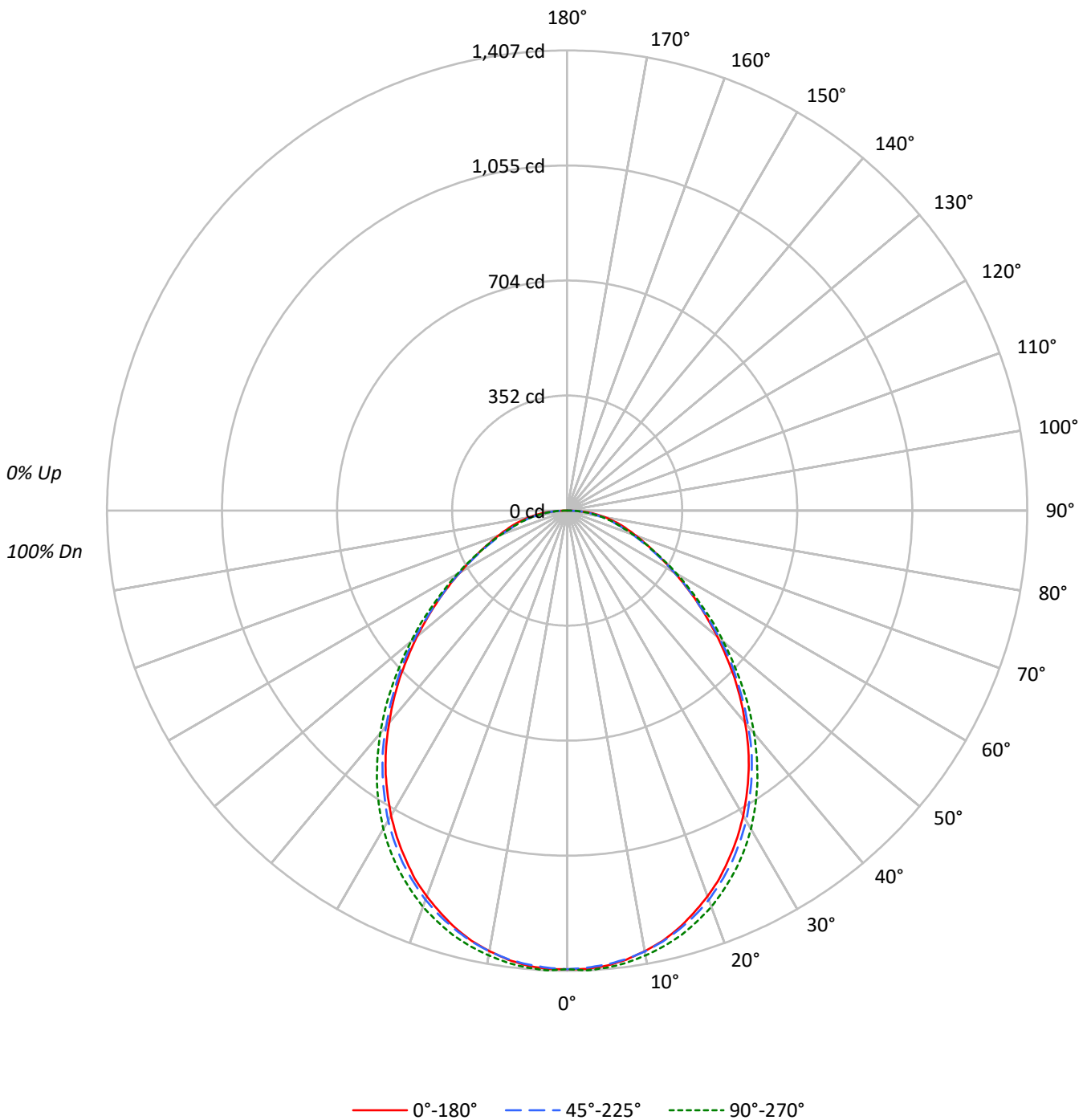
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3774	3774	3774
5°	3773	3763	3789
10°	3738	3739	3774
15°	3680	3693	3746
20°	3594	3626	3692
25°	3482	3531	3608
30°	3345	3402	3492
35°	3181	3232	3332
40°	2974	3023	3123
45°	2753	2796	2878
50°	2508	2548	2613
55°	2264	2271	2337
60°	2031	2039	2087
65°	1850	1813	1855
70°	1762	1662	1692
75°	1773	1603	1611
80°	1838	1619	1609
85°	2013	1717	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	4.1
10°-20°	374.3	11.7
20°-30°	547.9	17.1
30°-40°	616.0	19.3
40°-50°	568.1	17.8
50°-60°	437.8	13.7
60°-70°	288.9	9.0
70°-80°	168.2	5.3
80°-90°	61.3	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°	1054.7	33.0
0°-40°	1670.7	52.3
0°-60°	2676.7	83.8
0°-90°	3195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1397	1394	1393	1400	1403	132
15°	1321	1321	1326	1337	1345	372
25°	1173	1179	1189	1205	1215	539
35°	968	973	984	1004	1014	604
45°	724	724	735	750	756	557
55°	483	482	484	492	498	433
65°	291	289	285	287	291	291
75°	170	163	154	151	155	180
85°	65	64	56	51	53	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.6	1402.6	1402.6	1402.6	1402.6
2.5°	1402.6	1399.7	1398.9	1404.1	1407.1
5°	1396.7	1393.7	1393.0	1399.7	1402.6
7.5°	1384.8	1382.6	1383.3	1390.8	1394.5
10°	1367.8	1367.0	1368.5	1376.7	1381.1
12.5°	1347.8	1347.0	1350.0	1358.9	1364.8
15°	1321.1	1321.1	1325.5	1337.4	1344.8
17.5°	1289.2	1291.4	1298.1	1310.0	1318.1
20°	1255.1	1257.3	1266.2	1279.6	1289.2
22.5°	1217.3	1220.2	1229.1	1245.5	1253.6
25°	1172.8	1178.7	1189.1	1205.4	1215.1
27.5°	1126.8	1133.5	1143.1	1163.2	1172.1
30°	1076.4	1080.9	1095.0	1113.5	1123.9
32.5°	1023.1	1027.5	1039.4	1061.6	1070.5
35°	968.2	972.6	983.8	1003.8	1014.2
37.5°	908.9	912.6	925.9	941.5	952.6
40°	846.6	851.8	860.7	879.2	888.9
42.5°	785.8	788.0	797.7	816.2	823.6
45°	723.5	724.3	734.7	749.5	756.2
47.5°	659.1	660.5	673.1	682.0	688.7
50°	599.0	599.7	608.6	616.8	624.2
52.5°	539.0	539.0	543.4	552.3	561.9
55°	482.6	481.9	484.1	492.3	498.2
57.5°	429.2	428.5	431.5	436.7	441.1
60°	377.3	375.9	378.8	381.8	387.7
62.5°	331.4	332.9	329.2	333.6	338.1
65°	290.6	289.1	284.7	286.9	291.3
67.5°	255.8	253.5	246.1	247.6	252.8
70°	223.9	219.4	211.3	211.3	215.0
72.5°	195.0	190.5	180.1	180.9	182.4
75°	170.5	163.1	154.2	151.2	154.9
77.5°	143.8	137.9	129.7	127.5	129.0
80°	118.6	114.2	104.5	101.6	103.8
82.5°	94.2	90.4	79.3	77.1	77.8
85°	65.2	64.5	55.6	51.2	52.6
87.5°	34.8	35.6	28.9	25.9	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)