

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: P291986

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291986
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-LD5-28-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2964.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

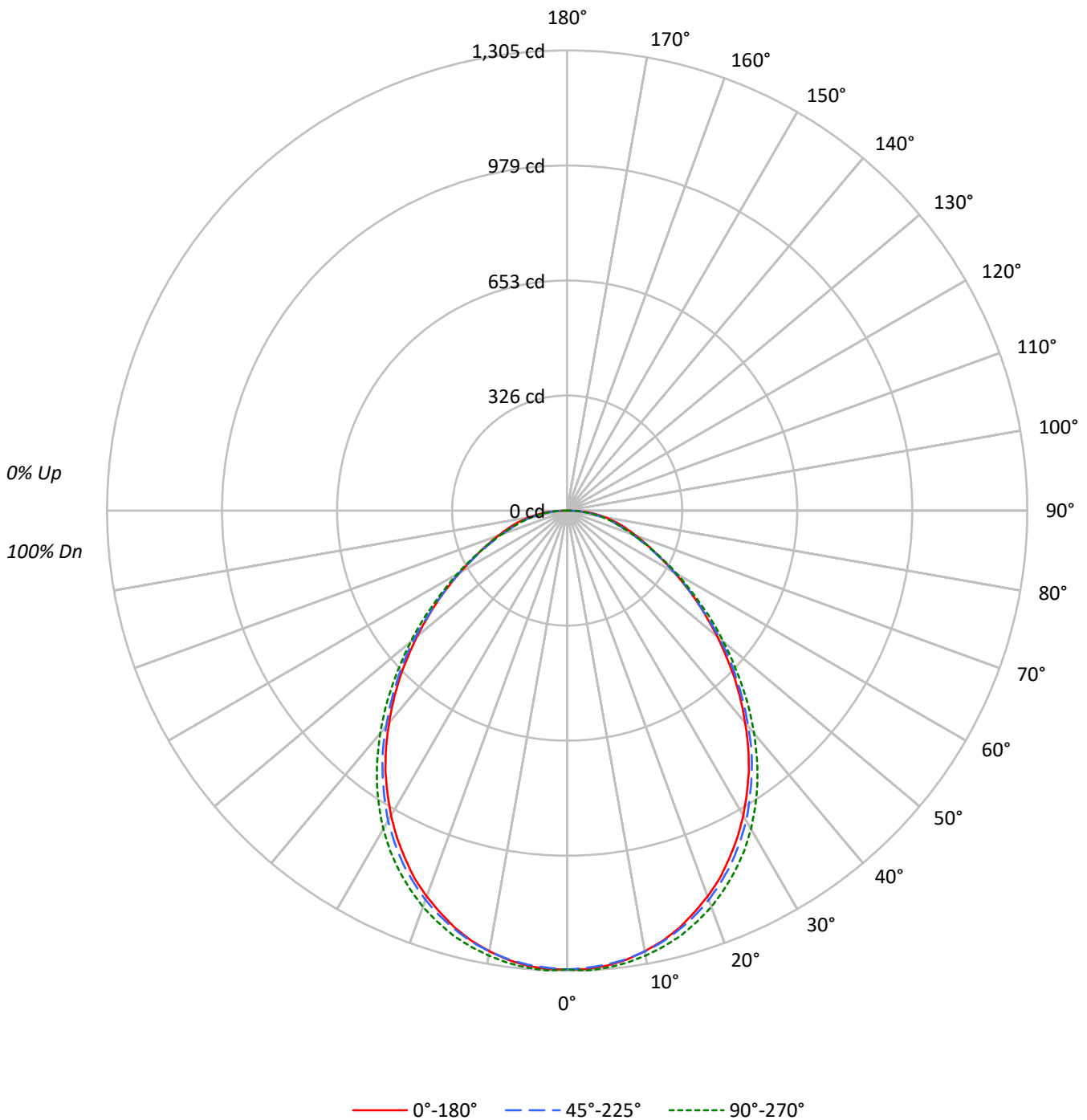
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3502	3502	3502
5°	3500	3491	3515
10°	3467	3469	3501
15°	3414	3426	3476
20°	3334	3364	3425
25°	3230	3275	3347
30°	3103	3156	3240
35°	2951	2998	3091
40°	2759	2805	2897
45°	2554	2594	2670
50°	2326	2364	2424
55°	2100	2107	2168
60°	1884	1891	1936
65°	1717	1682	1721
70°	1634	1542	1569
75°	1645	1488	1494
80°	1705	1503	1492
85°	1868	1593	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	4.1
10°-20°	347.3	11.7
20°-30°	508.3	17.1
30°-40°	571.5	19.3
40°-50°	527.0	17.8
50°-60°	406.2	13.7
60°-70°	268.0	9.0
70°-80°	156.0	5.3
80°-90°	56.8	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°	978.5	33.0
0°-40°	1549.9	52.3
0°-60°	2483.1	83.8
0°-90°	2964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1296	1293	1292	1298	1301	123
15°	1226	1226	1230	1241	1248	345
25°	1088	1094	1103	1118	1127	500
35°	898	902	913	931	941	560
45°	671	672	682	695	702	517
55°	448	447	449	457	462	402
65°	270	268	264	266	270	270
75°	158	151	143	140	144	167
85°	60	60	52	48	49	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1301.2	1298.5	1297.8	1302.6	1305.3
5°	1295.7	1293.0	1292.3	1298.5	1301.2
7.5°	1284.7	1282.6	1283.3	1290.2	1293.6
10°	1268.9	1268.2	1269.6	1277.1	1281.3
12.5°	1250.3	1249.6	1252.4	1260.6	1266.1
15°	1225.6	1225.6	1229.7	1240.7	1247.6
17.5°	1196.0	1198.0	1204.2	1215.2	1222.8
20°	1164.3	1166.4	1174.7	1187.0	1196.0
22.5°	1129.3	1132.0	1140.3	1155.4	1163.0
25°	1088.0	1093.5	1103.1	1118.3	1127.2
27.5°	1045.4	1051.6	1060.5	1079.1	1087.3
30°	998.6	1002.7	1015.8	1033.0	1042.6
32.5°	949.1	953.2	964.2	984.8	993.1
35°	898.2	902.3	912.6	931.2	940.8
37.5°	843.2	846.6	859.0	873.4	883.7
40°	785.4	790.2	798.5	815.7	824.6
42.5°	729.0	731.1	740.0	757.2	764.1
45°	671.2	671.9	681.6	695.3	701.5
47.5°	611.4	612.8	624.5	632.7	638.9
50°	555.7	556.4	564.6	572.2	579.1
52.5°	500.0	500.0	504.1	512.4	521.3
55°	447.7	447.0	449.1	456.7	462.2
57.5°	398.2	397.5	400.3	405.1	409.2
60°	350.1	348.7	351.4	354.2	359.7
62.5°	307.4	308.8	305.4	309.5	313.6
65°	269.6	268.2	264.1	266.2	270.3
67.5°	237.3	235.2	228.3	229.7	234.5
70°	207.7	203.6	196.0	196.0	199.4
72.5°	180.9	176.7	167.1	167.8	169.2
75°	158.2	151.3	143.1	140.3	143.7
77.5°	133.4	127.9	120.4	118.3	119.7
80°	110.0	105.9	97.0	94.2	96.3
82.5°	87.3	83.9	73.6	71.5	72.2
85°	60.5	59.8	51.6	47.5	48.8
87.5°	32.3	33.0	26.8	24.1	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)