

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: P292805

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

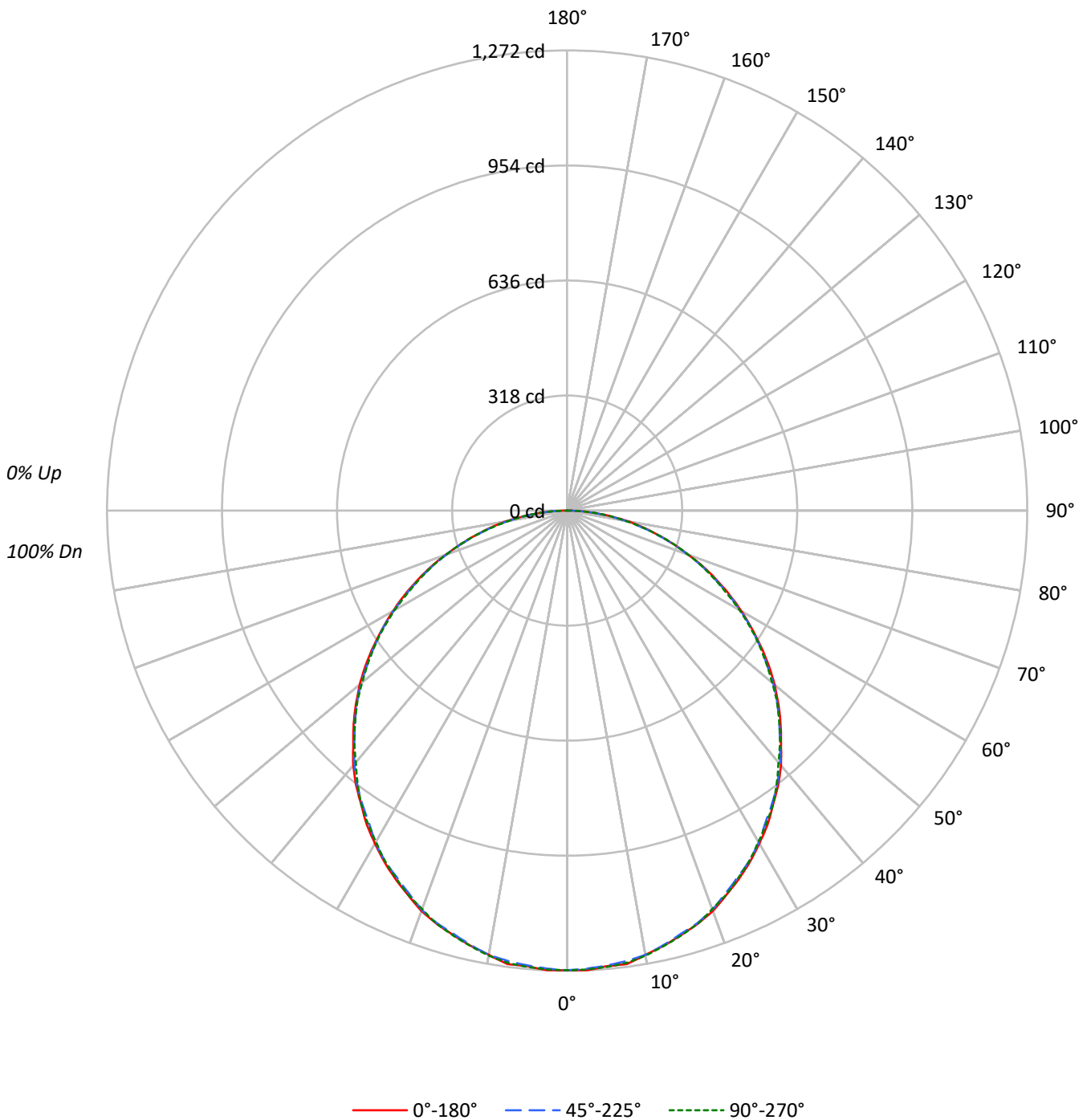
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3419	3419	3419
5°	3415	3409	3421
10°	3408	3408	3413
15°	3385	3376	3388
20°	3373	3364	3358
25°	3336	3317	3326
30°	3302	3292	3286
35°	3260	3246	3260
40°	3231	3216	3194
45°	3176	3156	3156
50°	3133	3115	3097
55°	3065	3045	3041
60°	2995	2977	2966
65°	2918	2884	2871
70°	2801	2792	2801
75°	2704	2671	2693
80°	2676	2543	2528
85°	2368	2303	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.3
10°-20°	342.9	9.4
20°-30°	516.4	14.2
30°-40°	619.7	17.1
40°-50°	641.3	17.7
50°-60°	581.1	16.0
60°-70°	450.4	12.4
70°-80°	273.4	7.5
80°-90°	84.6	2.3
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°	979.5	27.0
0°-40°	1599.2	44.1
0°-60°	2821.5	77.7
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1264	1264	1262	1265	1266	120
15°	1215	1215	1212	1217	1216	343
25°	1123	1121	1117	1121	1120	518
35°	992	992	988	989	992	622
45°	835	834	829	829	829	644
55°	653	652	649	648	648	584
65°	458	458	453	455	451	453
75°	260	259	257	257	259	277
85°	77	76	75	75	76	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.5	1270.5	1270.5	1270.5	1270.5
2.5°	1271.6	1266.3	1267.3	1269.5	1269.5
5°	1264.1	1264.1	1262.0	1265.2	1266.3
7.5°	1264.1	1258.8	1255.6	1258.8	1260.9
10°	1247.1	1245.0	1247.1	1246.0	1249.2
12.5°	1232.2	1230.0	1230.0	1233.2	1233.2
15°	1215.1	1215.1	1211.9	1217.2	1216.2
17.5°	1198.1	1198.1	1195.9	1195.9	1198.1
20°	1177.8	1172.5	1174.6	1173.5	1172.5
22.5°	1150.1	1146.9	1144.8	1148.0	1149.0
25°	1123.4	1121.3	1117.0	1121.3	1120.2
27.5°	1094.7	1092.5	1091.5	1089.3	1091.5
30°	1062.7	1060.6	1059.5	1057.4	1057.4
32.5°	1030.7	1026.4	1021.1	1026.4	1025.4
35°	992.3	992.3	988.1	989.1	992.3
37.5°	958.2	956.1	954.0	950.8	951.8
40°	919.9	916.7	915.6	913.5	909.2
42.5°	875.1	875.1	870.8	871.9	870.8
45°	834.6	833.5	829.3	829.3	829.3
47.5°	792.0	790.9	787.7	785.6	787.7
50°	748.3	744.0	744.0	740.8	739.7
52.5°	702.4	699.2	695.0	696.0	693.9
55°	653.4	652.3	649.1	648.1	648.1
57.5°	604.4	605.4	603.3	599.0	600.1
60°	556.4	555.3	553.2	551.1	551.1
62.5°	507.4	507.4	503.1	503.1	498.8
65°	458.3	458.3	453.0	455.1	450.9
67.5°	409.3	408.2	405.0	404.0	405.0
70°	356.0	357.1	354.9	354.9	356.0
72.5°	308.0	307.0	305.9	305.9	308.0
75°	260.1	259.0	256.9	256.9	259.0
77.5°	216.4	211.0	210.0	212.1	208.9
80°	172.7	165.2	164.1	163.1	163.1
82.5°	121.5	118.3	119.4	118.3	120.4
85°	76.7	75.7	74.6	74.6	75.7
87.5°	36.2	34.1	34.1	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)