

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: P292746

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292746
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-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

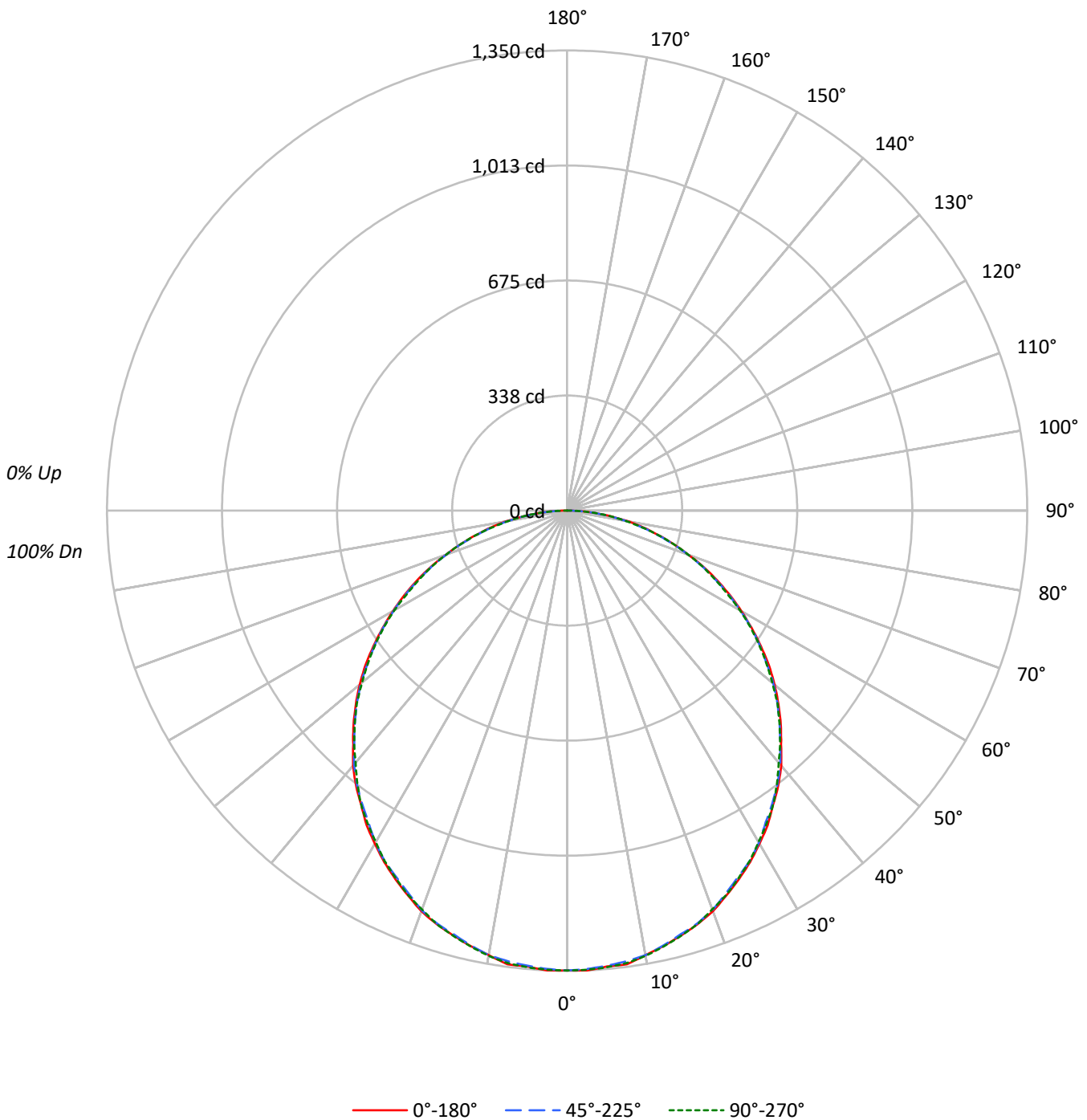
Input Watts (W): 36.921
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3631	3631	3631
5°	3626	3620	3633
10°	3619	3619	3625
15°	3595	3585	3598
20°	3582	3572	3566
25°	3543	3522	3532
30°	3507	3496	3489
35°	3462	3447	3462
40°	3432	3416	3392
45°	3373	3352	3352
50°	3327	3308	3289
55°	3255	3234	3229
60°	3180	3162	3150
65°	3099	3063	3049
70°	2975	2965	2975
75°	2872	2836	2860
80°	2842	2701	2684
85°	2516	2445	2482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.3
10°-20°	364.2	9.4
20°-30°	548.4	14.2
30°-40°	658.1	17.1
40°-50°	681.0	17.7
50°-60°	617.1	16.0
60°-70°	478.3	12.4
70°-80°	290.4	7.5
80°-90°	89.9	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°	1040.2	27.0
0°-40°	1698.4	44.1
0°-60°	2996.4	77.7
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1342	1342	1340	1344	1345	128
15°	1290	1290	1287	1293	1292	365
25°	1193	1191	1186	1191	1190	550
35°	1054	1054	1049	1050	1054	661
45°	886	885	881	881	881	684
55°	694	693	689	688	688	621
65°	487	487	481	483	479	481
75°	276	275	273	273	275	294
85°	82	80	79	79	80	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.3	1349.3	1349.3	1349.3	1349.3
2.5°	1350.4	1344.8	1345.9	1348.2	1348.2
5°	1342.5	1342.5	1340.2	1343.6	1344.8
7.5°	1342.5	1336.8	1333.4	1336.8	1339.1
10°	1324.4	1322.1	1324.4	1323.3	1326.6
12.5°	1308.5	1306.3	1306.3	1309.7	1309.7
15°	1290.4	1290.4	1287.0	1292.7	1291.6
17.5°	1272.3	1272.3	1270.0	1270.0	1272.3
20°	1250.8	1245.1	1247.4	1246.3	1245.1
22.5°	1221.4	1218.0	1215.7	1219.1	1220.2
25°	1193.1	1190.8	1186.3	1190.8	1189.7
27.5°	1162.5	1160.3	1159.1	1156.9	1159.1
30°	1128.6	1126.3	1125.2	1122.9	1122.9
32.5°	1094.6	1090.1	1084.4	1090.1	1088.9
35°	1053.8	1053.8	1049.3	1050.5	1053.8
37.5°	1017.6	1015.4	1013.1	1009.7	1010.8
40°	976.9	973.5	972.3	970.1	965.6
42.5°	929.3	929.3	924.8	925.9	924.8
45°	886.3	885.2	880.7	880.7	880.7
47.5°	841.0	839.9	836.5	834.2	836.5
50°	794.6	790.1	790.1	786.7	785.6
52.5°	746.0	742.6	738.0	739.2	736.9
55°	693.9	692.8	689.4	688.2	688.2
57.5°	641.8	642.9	640.7	636.2	637.3
60°	590.9	589.7	587.5	585.2	585.2
62.5°	538.8	538.8	534.3	534.3	529.8
65°	486.7	486.7	481.1	483.3	478.8
67.5°	434.7	433.5	430.1	429.0	430.1
70°	378.1	379.2	376.9	376.9	378.1
72.5°	327.1	326.0	324.9	324.9	327.1
75°	276.2	275.1	272.8	272.8	275.1
77.5°	229.8	224.1	223.0	225.3	221.9
80°	183.4	175.5	174.3	173.2	173.2
82.5°	129.0	125.6	126.8	125.6	127.9
85°	81.5	80.4	79.2	79.2	80.4
87.5°	38.5	36.2	36.2	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)