

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: P292796

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292796
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-LD5-40-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: 3400.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

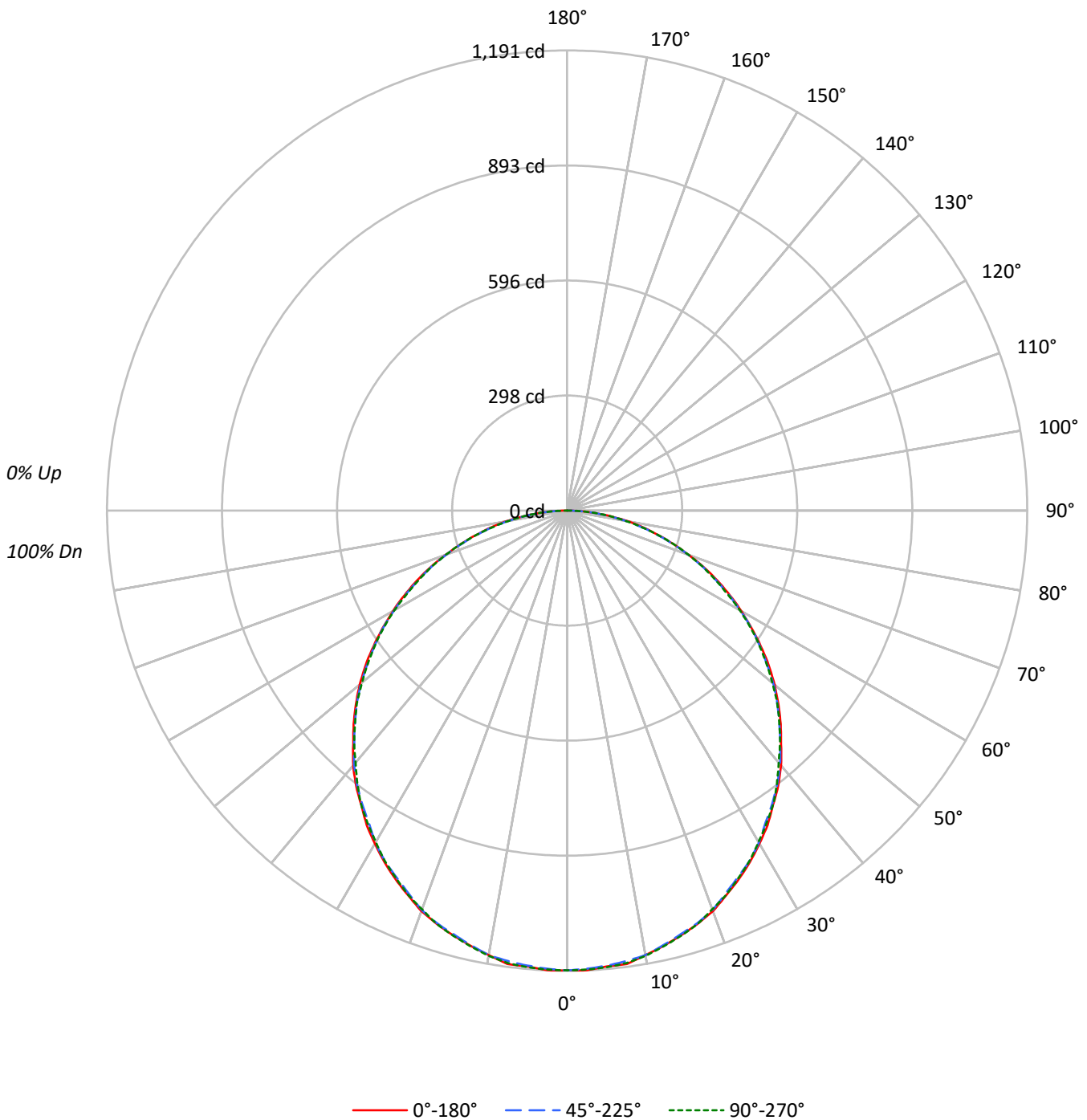
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3202	3202	3202
5°	3198	3193	3204
10°	3192	3192	3197
15°	3171	3162	3173
20°	3159	3151	3145
25°	3124	3107	3116
30°	3093	3084	3077
35°	3053	3040	3053
40°	3027	3013	2992
45°	2975	2956	2956
50°	2934	2917	2901
55°	2871	2852	2848
60°	2805	2788	2778
65°	2734	2702	2689
70°	2623	2616	2623
75°	2533	2502	2522
80°	2506	2382	2366
85°	2220	2158	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.3
10°-20°	321.2	9.4
20°-30°	483.7	14.2
30°-40°	580.5	17.1
40°-50°	600.6	17.7
50°-60°	544.2	16.0
60°-70°	421.9	12.4
70°-80°	256.1	7.5
80°-90°	79.2	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°	917.5	27.0
0°-40°	1497.9	44.1
0°-60°	2642.8	77.7
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1184	1184	1182	1185	1186	113
15°	1138	1138	1135	1140	1139	322
25°	1052	1050	1046	1050	1049	485
35°	930	930	926	926	930	583
45°	782	781	777	777	777	603
55°	612	611	608	607	607	547
65°	429	429	424	426	422	424
75°	244	243	241	241	243	259
85°	72	71	70	70	71	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1191.0	1186.0	1187.0	1189.0	1189.0
5°	1184.0	1184.0	1182.0	1185.0	1186.0
7.5°	1184.0	1179.0	1176.1	1179.0	1181.0
10°	1168.1	1166.1	1168.1	1167.1	1170.1
12.5°	1154.1	1152.1	1152.1	1155.1	1155.1
15°	1138.1	1138.1	1135.1	1140.1	1139.1
17.5°	1122.1	1122.1	1120.1	1120.1	1122.1
20°	1103.2	1098.2	1100.2	1099.2	1098.2
22.5°	1077.2	1074.2	1072.2	1075.2	1076.2
25°	1052.3	1050.3	1046.3	1050.3	1049.3
27.5°	1025.3	1023.3	1022.3	1020.3	1022.3
30°	995.4	993.4	992.4	990.4	990.4
32.5°	965.4	961.4	956.4	961.4	960.4
35°	929.5	929.5	925.5	926.5	929.5
37.5°	897.5	895.5	893.5	890.5	891.5
40°	861.6	858.6	857.6	855.6	851.6
42.5°	819.6	819.6	815.7	816.6	815.7
45°	781.7	780.7	776.7	776.7	776.7
47.5°	741.8	740.8	737.8	735.8	737.8
50°	700.8	696.8	696.8	693.9	692.9
52.5°	657.9	654.9	650.9	651.9	649.9
55°	612.0	611.0	608.0	607.0	607.0
57.5°	566.1	567.1	565.1	561.1	562.1
60°	521.1	520.1	518.1	516.1	516.1
62.5°	475.2	475.2	471.2	471.2	467.2
65°	429.3	429.3	424.3	426.3	422.3
67.5°	383.4	382.4	379.4	378.4	379.4
70°	333.4	334.4	332.5	332.5	333.4
72.5°	288.5	287.5	286.5	286.5	288.5
75°	243.6	242.6	240.6	240.6	242.6
77.5°	202.7	197.7	196.7	198.7	195.7
80°	161.7	154.7	153.7	152.7	152.7
82.5°	113.8	110.8	111.8	110.8	112.8
85°	71.9	70.9	69.9	69.9	70.9
87.5°	33.9	31.9	31.9	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)