

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: P292844

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292844
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-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

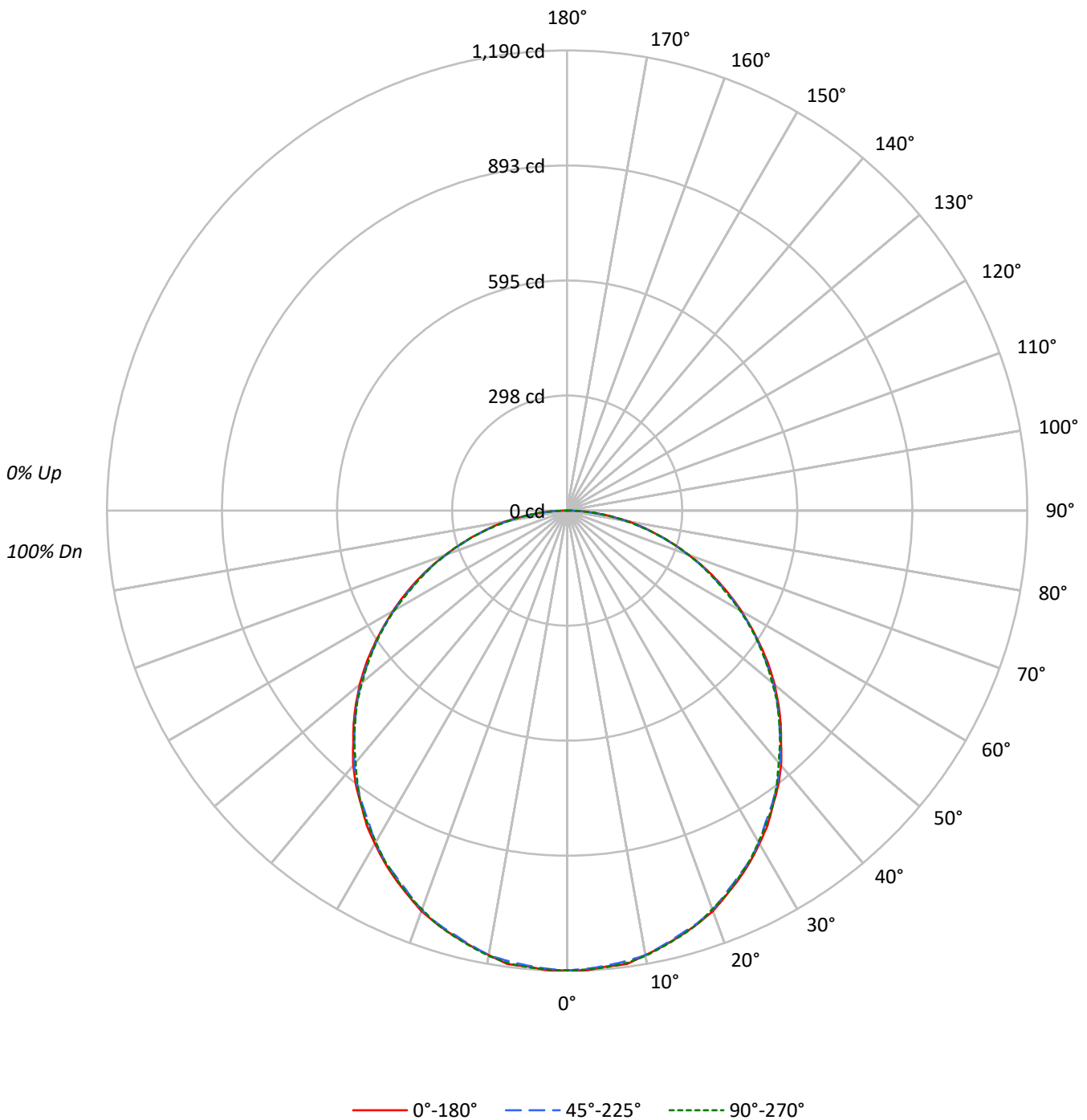
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3200	3200	3200
5°	3196	3190	3201
10°	3189	3189	3194
15°	3168	3159	3171
20°	3156	3148	3142
25°	3121	3104	3113
30°	3090	3081	3075
35°	3051	3038	3051
40°	3024	3010	2989
45°	2972	2953	2953
50°	2931	2915	2898
55°	2868	2850	2845
60°	2802	2786	2775
65°	2731	2699	2686
70°	2622	2614	2622
75°	2531	2499	2520
80°	2504	2380	2365
85°	2217	2155	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.3
10°-20°	320.9	9.4
20°-30°	483.3	14.2
30°-40°	579.9	17.1
40°-50°	600.1	17.7
50°-60°	543.8	16.0
60°-70°	421.5	12.4
70°-80°	255.9	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°	916.7	27.0
0°-40°	1496.6	44.1
0°-60°	2640.4	77.7
0°-90°	3397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1183	1183	1181	1184	1185	113
15°	1137	1137	1134	1139	1138	321
25°	1051	1049	1045	1049	1048	485
35°	929	929	925	926	929	582
45°	781	780	776	776	776	603
55°	611	610	608	606	606	547
65°	429	429	424	426	422	424
75°	243	242	240	240	242	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°	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1190.0	1185.0	1186.0	1188.0	1188.0
5°	1183.0	1183.0	1181.0	1184.0	1185.0
7.5°	1183.0	1178.0	1175.0	1178.0	1180.0
10°	1167.0	1165.0	1167.0	1166.0	1169.0
12.5°	1153.1	1151.1	1151.1	1154.1	1154.1
15°	1137.1	1137.1	1134.1	1139.1	1138.1
17.5°	1121.2	1121.2	1119.2	1119.2	1121.2
20°	1102.2	1097.2	1099.2	1098.2	1097.2
22.5°	1076.3	1073.3	1071.3	1074.3	1075.3
25°	1051.3	1049.3	1045.3	1049.3	1048.3
27.5°	1024.4	1022.4	1021.4	1019.4	1021.4
30°	994.5	992.5	991.5	989.5	989.5
32.5°	964.6	960.6	955.6	960.6	959.6
35°	928.6	928.6	924.7	925.7	928.6
37.5°	896.7	894.7	892.7	889.7	890.7
40°	860.8	857.8	856.8	854.8	850.8
42.5°	818.9	818.9	814.9	815.9	814.9
45°	781.0	780.0	776.0	776.0	776.0
47.5°	741.1	740.1	737.1	735.1	737.1
50°	700.2	696.2	696.2	693.2	692.2
52.5°	657.3	654.3	650.3	651.3	649.4
55°	611.4	610.5	607.5	606.5	606.5
57.5°	565.6	566.6	564.6	560.6	561.6
60°	520.7	519.7	517.7	515.7	515.7
62.5°	474.8	474.8	470.8	470.8	466.8
65°	428.9	428.9	423.9	425.9	421.9
67.5°	383.0	382.0	379.0	378.0	379.0
70°	333.2	334.2	332.2	332.2	333.2
72.5°	288.3	287.3	286.3	286.3	288.3
75°	243.4	242.4	240.4	240.4	242.4
77.5°	202.5	197.5	196.5	198.5	195.5
80°	161.6	154.6	153.6	152.6	152.6
82.5°	113.7	110.7	111.7	110.7	112.7
85°	71.8	70.8	69.8	69.8	70.8
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)