

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: P292772

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292772
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-LD5-28-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2534.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

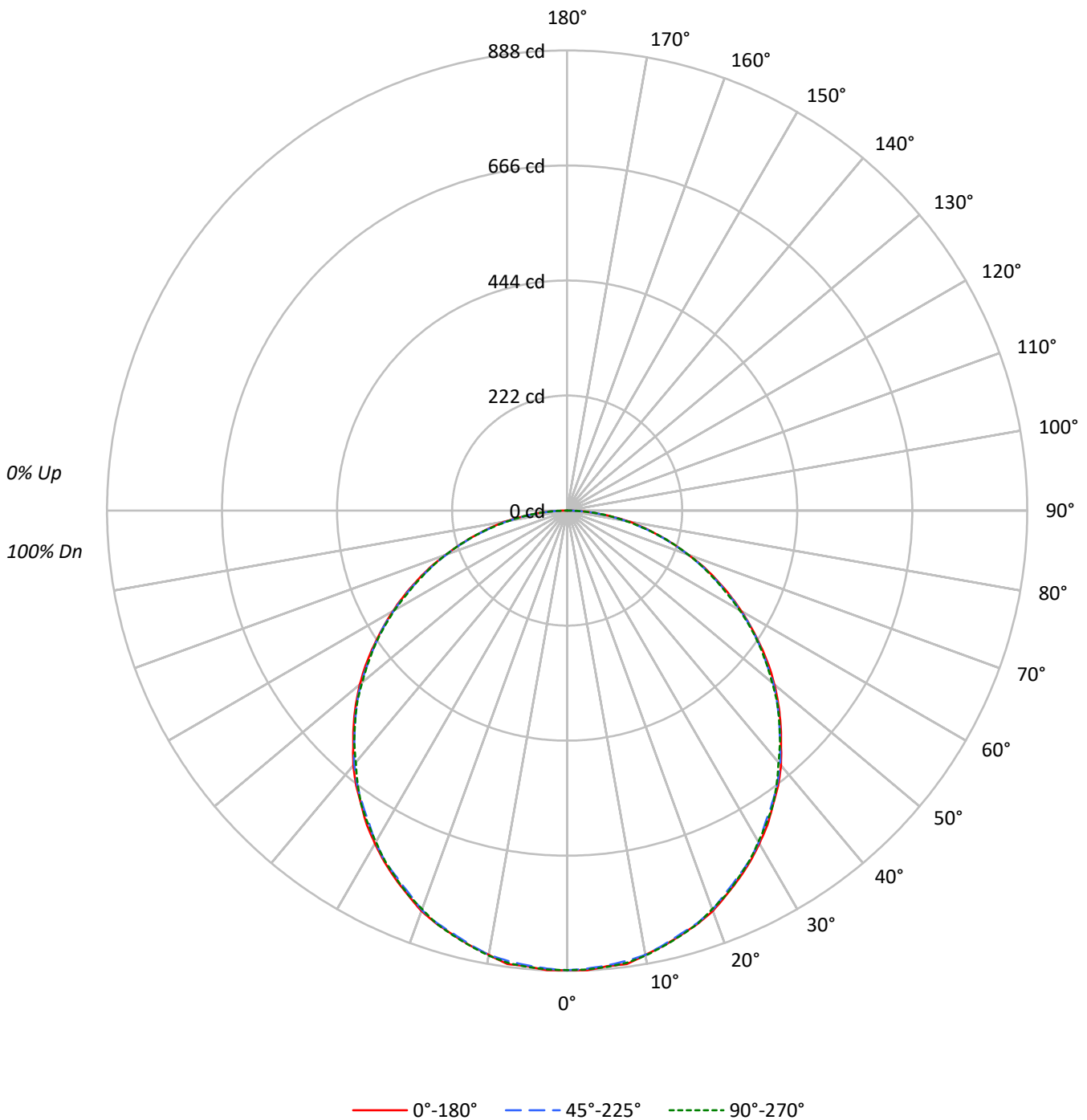
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2387	2387	2387
5°	2384	2380	2388
10°	2379	2379	2383
15°	2363	2357	2365
20°	2355	2348	2344
25°	2328	2315	2322
30°	2305	2298	2293
35°	2276	2266	2276
40°	2256	2245	2230
45°	2217	2203	2203
50°	2187	2174	2162
55°	2140	2126	2122
60°	2090	2079	2070
65°	2037	2013	2004
70°	1955	1950	1955
75°	1888	1864	1880
80°	1867	1776	1764
85°	1655	1609	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.3
10°-20°	239.4	9.4
20°-30°	360.5	14.2
30°-40°	432.6	17.1
40°-50°	447.6	17.7
50°-60°	405.6	16.0
60°-70°	314.4	12.4
70°-80°	190.9	7.5
80°-90°	59.1	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°	683.8	27.0
0°-40°	1116.4	44.1
0°-60°	1969.6	77.7
0°-90°	2534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	882	882	881	883	884	84
15°	848	848	846	850	849	240
25°	784	783	780	783	782	361
35°	693	693	690	690	693	434
45°	583	582	579	579	579	450
55°	456	455	453	452	452	408
65°	320	320	316	318	315	316
75°	182	181	179	179	181	193
85°	54	53	52	52	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.9	886.9	886.9	886.9	886.9
2.5°	887.7	883.9	884.7	886.2	886.2
5°	882.5	882.5	881.0	883.2	883.9
7.5°	882.5	878.7	876.5	878.7	880.2
10°	870.6	869.1	870.6	869.8	872.0
12.5°	860.1	858.6	858.6	860.9	860.9
15°	848.2	848.2	846.0	849.7	849.0
17.5°	836.3	836.3	834.8	834.8	836.3
20°	822.2	818.5	820.0	819.2	818.5
22.5°	802.8	800.6	799.1	801.4	802.1
25°	784.2	782.8	779.8	782.8	782.0
27.5°	764.2	762.7	761.9	760.4	761.9
30°	741.8	740.3	739.6	738.1	738.1
32.5°	719.5	716.5	712.8	716.5	715.8
35°	692.7	692.7	689.7	690.5	692.7
37.5°	668.9	667.4	665.9	663.7	664.4
40°	642.1	639.9	639.2	637.7	634.7
42.5°	610.9	610.9	607.9	608.6	607.9
45°	582.6	581.9	578.9	578.9	578.9
47.5°	552.8	552.1	549.9	548.4	549.9
50°	522.3	519.4	519.4	517.1	516.4
52.5°	490.3	488.1	485.1	485.9	484.4
55°	456.1	455.4	453.1	452.4	452.4
57.5°	421.9	422.6	421.1	418.2	418.9
60°	388.4	387.7	386.2	384.7	384.7
62.5°	354.2	354.2	351.2	351.2	348.2
65°	319.9	319.9	316.2	317.7	314.7
67.5°	285.7	285.0	282.7	282.0	282.7
70°	248.5	249.3	247.8	247.8	248.5
72.5°	215.0	214.3	213.5	213.5	215.0
75°	181.6	180.8	179.3	179.3	180.8
77.5°	151.0	147.3	146.6	148.1	145.8
80°	120.5	115.3	114.6	113.8	113.8
82.5°	84.8	82.6	83.3	82.6	84.1
85°	53.6	52.8	52.1	52.1	52.8
87.5°	25.3	23.8	23.8	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)