

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: P292768

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292768
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2380.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

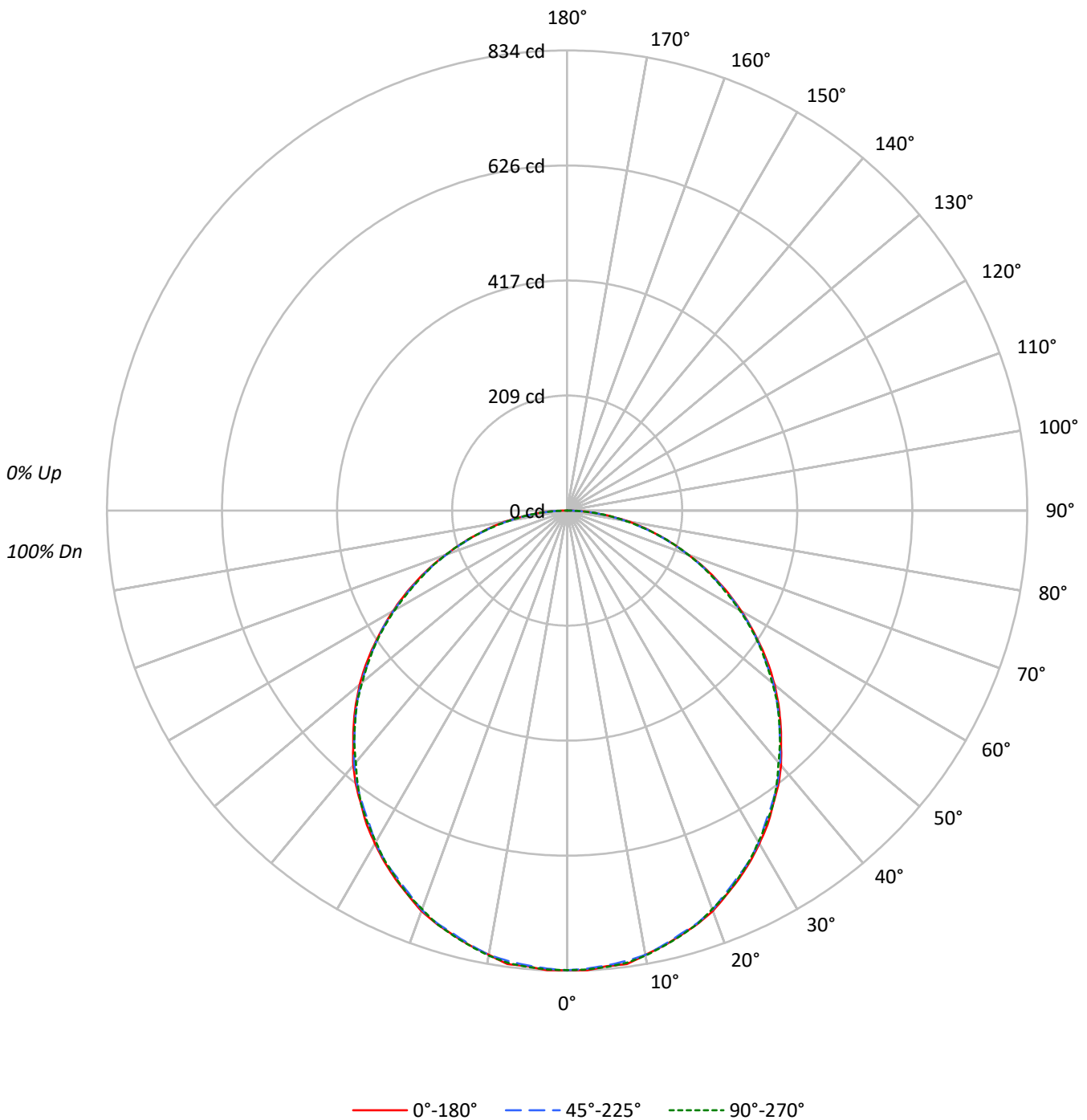
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2242	2242	2242
5°	2239	2235	2243
10°	2234	2234	2238
15°	2220	2214	2221
20°	2211	2205	2201
25°	2187	2175	2181
30°	2165	2159	2154
35°	2137	2128	2137
40°	2119	2109	2094
45°	2082	2069	2069
50°	2054	2042	2030
55°	2010	1997	1993
60°	1963	1952	1945
65°	1913	1891	1882
70°	1836	1831	1836
75°	1773	1751	1765
80°	1754	1667	1657
85°	1553	1510	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.3
10°-20°	224.8	9.4
20°-30°	338.6	14.2
30°-40°	406.3	17.1
40°-50°	420.4	17.7
50°-60°	381.0	16.0
60°-70°	295.3	12.4
70°-80°	179.3	7.5
80°-90°	55.5	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°	642.2	27.0
0°-40°	1048.5	44.1
0°-60°	1849.9	77.7
0°-90°	2380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	829	829	827	830	830	79
15°	797	797	795	798	797	225
25°	737	735	732	735	734	340
35°	651	651	648	648	651	408
45°	547	546	544	544	544	422
55°	428	428	426	425	425	383
65°	300	300	297	298	296	297
75°	170	170	168	168	170	181
85°	50	50	49	49	50	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.0	833.0	833.0	833.0	833.0
2.5°	833.7	830.2	830.9	832.3	832.3
5°	828.8	828.8	827.4	829.5	830.2
7.5°	828.8	825.3	823.2	825.3	826.7
10°	817.6	816.2	817.6	816.9	819.0
12.5°	807.9	806.5	806.5	808.6	808.6
15°	796.7	796.7	794.6	798.1	797.4
17.5°	785.5	785.5	784.1	784.1	785.5
20°	772.2	768.7	770.1	769.4	768.7
22.5°	754.1	752.0	750.6	752.7	753.4
25°	736.6	735.2	732.4	735.2	734.5
27.5°	717.7	716.3	715.6	714.2	715.6
30°	696.7	695.3	694.7	693.3	693.3
32.5°	675.8	673.0	669.5	673.0	672.3
35°	650.6	650.6	647.8	648.5	650.6
37.5°	628.3	626.9	625.5	623.4	624.1
40°	603.1	601.0	600.3	598.9	596.1
42.5°	573.8	573.8	571.0	571.7	571.0
45°	547.2	546.5	543.7	543.7	543.7
47.5°	519.2	518.5	516.4	515.0	516.4
50°	490.6	487.8	487.8	485.7	485.0
52.5°	460.5	458.4	455.6	456.3	454.9
55°	428.4	427.7	425.6	424.9	424.9
57.5°	396.2	396.9	395.5	392.8	393.4
60°	364.8	364.1	362.7	361.3	361.3
62.5°	332.6	332.6	329.9	329.9	327.1
65°	300.5	300.5	297.0	298.4	295.6
67.5°	268.4	267.7	265.6	264.9	265.6
70°	233.4	234.1	232.7	232.7	233.4
72.5°	202.0	201.3	200.6	200.6	202.0
75°	170.5	169.8	168.4	168.4	169.8
77.5°	141.9	138.4	137.7	139.1	137.0
80°	113.2	108.3	107.6	106.9	106.9
82.5°	79.7	77.6	78.3	77.6	79.0
85°	50.3	49.6	48.9	48.9	49.6
87.5°	23.8	22.4	22.4	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)