

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: P292769

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292769
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-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: 2433.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

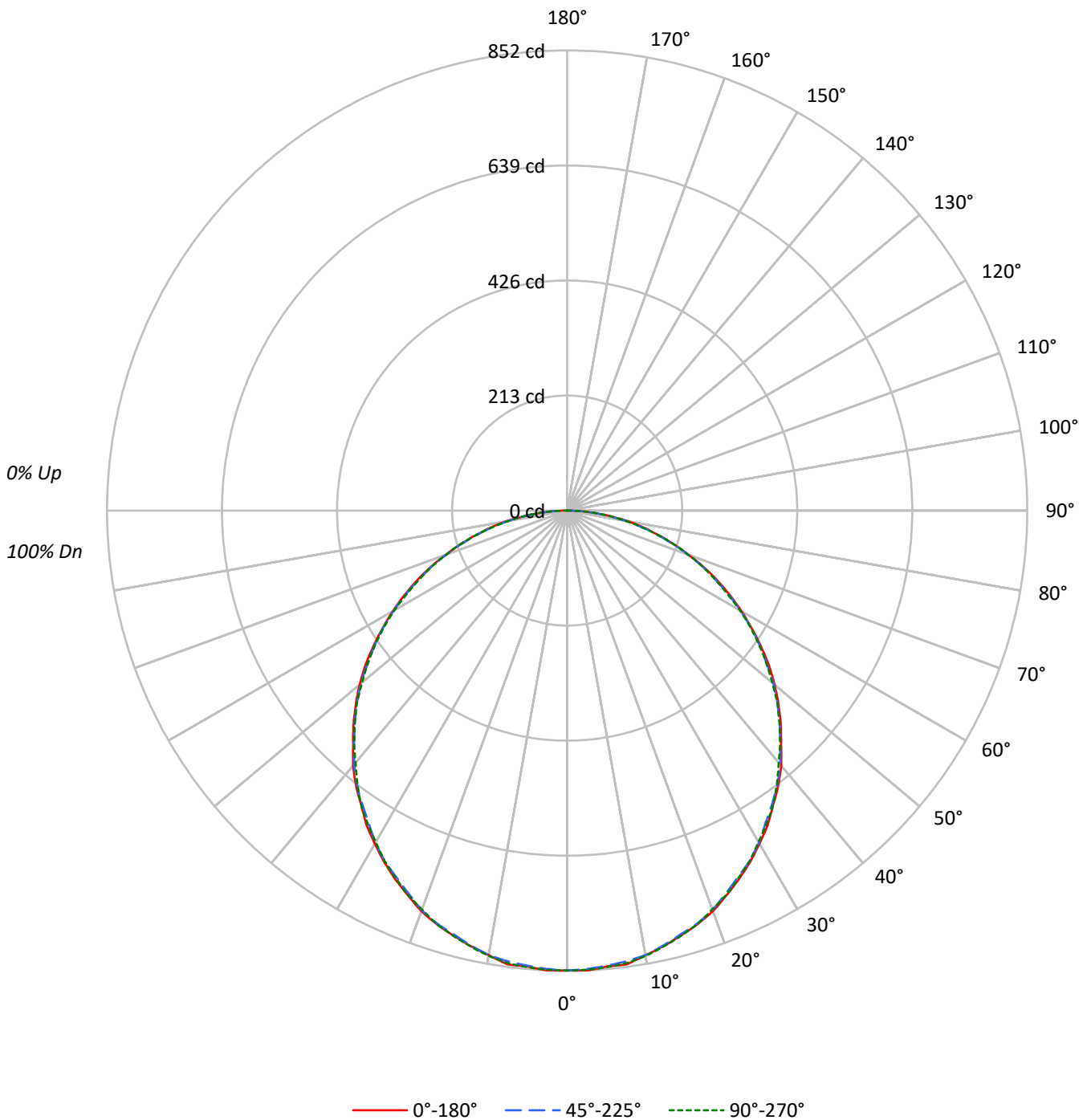
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2292	2292	2292
5°	2289	2285	2293
10°	2284	2284	2288
15°	2269	2263	2271
20°	2261	2255	2250
25°	2236	2223	2229
30°	2213	2206	2202
35°	2185	2176	2185
40°	2166	2156	2141
45°	2129	2115	2115
50°	2099	2088	2076
55°	2054	2041	2038
60°	2007	1996	1988
65°	1956	1933	1924
70°	1877	1872	1877
75°	1812	1790	1805
80°	1793	1705	1694
85°	1587	1544	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.3
10°-20°	229.9	9.4
20°-30°	346.1	14.2
30°-40°	415.4	17.1
40°-50°	429.8	17.7
50°-60°	389.5	16.0
60°-70°	301.9	12.4
70°-80°	183.3	7.5
80°-90°	56.7	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°	656.5	27.0
0°-40°	1071.9	44.1
0°-60°	1891.2	77.7
0°-90°	2433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	847	847	846	848	849	81
15°	814	814	812	816	815	230
25°	753	752	749	752	751	347
35°	665	665	662	663	665	417
45°	559	559	556	556	556	432
55°	438	437	435	434	434	392
65°	307	307	304	305	302	304
75°	174	174	172	172	174	185
85°	51	51	50	50	51	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.6	851.6	851.6	851.6	851.6
2.5°	852.3	848.7	849.4	850.9	850.9
5°	847.3	847.3	845.9	848.0	848.7
7.5°	847.3	843.7	841.6	843.7	845.1
10°	835.9	834.4	835.9	835.1	837.3
12.5°	825.9	824.4	824.4	826.6	826.6
15°	814.4	814.4	812.3	815.9	815.1
17.5°	803.0	803.0	801.6	801.6	803.0
20°	789.4	785.8	787.3	786.6	785.8
22.5°	770.8	768.7	767.3	769.4	770.1
25°	753.0	751.6	748.7	751.6	750.8
27.5°	733.7	732.3	731.6	730.1	731.6
30°	712.3	710.8	710.1	708.7	708.7
32.5°	690.8	688.0	684.4	688.0	687.3
35°	665.1	665.1	662.3	663.0	665.1
37.5°	642.3	640.8	639.4	637.3	638.0
40°	616.5	614.4	613.7	612.2	609.4
42.5°	586.5	586.5	583.7	584.4	583.7
45°	559.4	558.7	555.8	555.8	555.8
47.5°	530.8	530.1	527.9	526.5	527.9
50°	501.5	498.7	498.7	496.5	495.8
52.5°	470.8	468.7	465.8	466.5	465.1
55°	437.9	437.2	435.1	434.4	434.4
57.5°	405.1	405.8	404.4	401.5	402.2
60°	372.9	372.2	370.8	369.3	369.3
62.5°	340.1	340.1	337.2	337.2	334.3
65°	307.2	307.2	303.6	305.1	302.2
67.5°	274.3	273.6	271.5	270.8	271.5
70°	238.6	239.3	237.9	237.9	238.6
72.5°	206.5	205.7	205.0	205.0	206.5
75°	174.3	173.6	172.2	172.2	173.6
77.5°	145.0	141.5	140.7	142.2	140.0
80°	115.7	110.7	110.0	109.3	109.3
82.5°	81.4	79.3	80.0	79.3	80.7
85°	51.4	50.7	50.0	50.0	50.7
87.5°	24.3	22.9	22.9	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)