

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: P292774

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292774
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2547.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

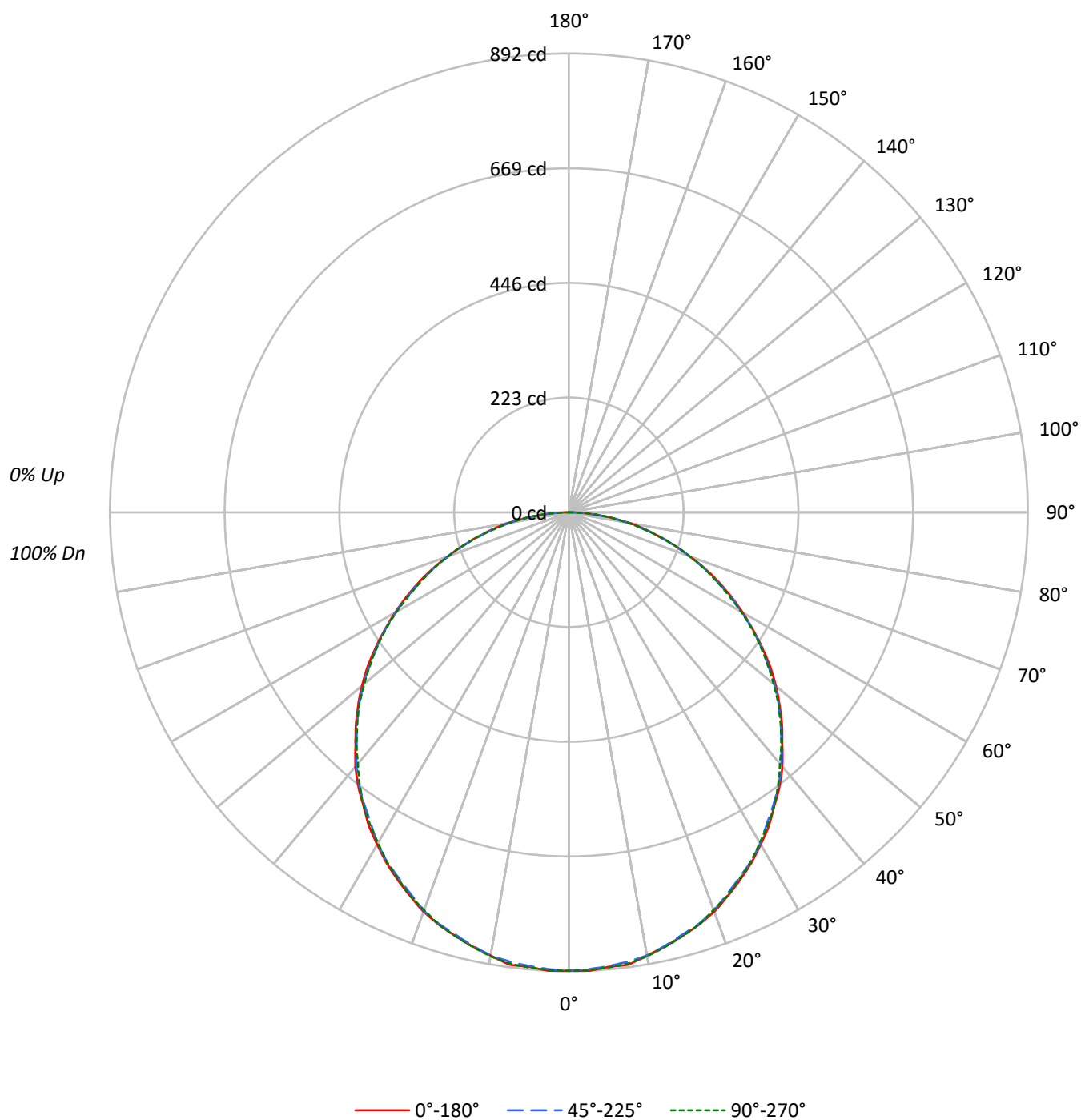
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2396	2392	2400
10°	2391	2391	2395
15°	2375	2369	2377
20°	2367	2360	2356
25°	2341	2327	2334
30°	2317	2310	2305
35°	2287	2278	2287
40°	2267	2257	2241
45°	2229	2214	2214
50°	2198	2185	2173
55°	2151	2137	2133
60°	2101	2089	2081
65°	2048	2024	2015
70°	1965	1959	1965
75°	1897	1874	1889
80°	1878	1785	1773
85°	1661	1618	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.3
10°-20°	240.6	9.4
20°-30°	362.3	14.2
30°-40°	434.8	17.1
40°-50°	449.9	17.7
50°-60°	407.7	16.0
60°-70°	316.0	12.4
70°-80°	191.8	7.5
80°-90°	59.4	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°	687.3	27.0
0°-40°	1122.1	44.1
0°-60°	1979.7	77.7
0°-90°	2547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	887	887	886	888	888	84
15°	853	853	850	854	853	241
25°	788	787	784	787	786	363
35°	696	696	693	694	696	437
45°	586	585	582	582	582	452
55°	458	458	456	455	455	410
65°	322	322	318	319	316	318
75°	182	182	180	180	182	194
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°	891.5	891.5	891.5	891.5	891.5
2.5°	892.2	888.5	889.2	890.7	890.7
5°	887.0	887.0	885.5	887.7	888.5
7.5°	887.0	883.2	881.0	883.2	884.7
10°	875.0	873.5	875.0	874.3	876.5
12.5°	864.6	863.1	863.1	865.3	865.3
15°	852.6	852.6	850.3	854.1	853.3
17.5°	840.6	840.6	839.1	839.1	840.6
20°	826.4	822.7	824.2	823.4	822.7
22.5°	807.0	804.7	803.2	805.5	806.2
25°	788.3	786.8	783.8	786.8	786.0
27.5°	768.1	766.6	765.8	764.3	765.8
30°	745.6	744.1	743.4	741.9	741.9
32.5°	723.2	720.2	716.5	720.2	719.5
35°	696.3	696.3	693.3	694.0	696.3
37.5°	672.3	670.8	669.4	667.1	667.9
40°	645.4	643.2	642.4	640.9	637.9
42.5°	614.0	614.0	611.0	611.8	611.0
45°	585.6	584.8	581.9	581.9	581.9
47.5°	555.7	554.9	552.7	551.2	552.7
50°	525.0	522.0	522.0	519.8	519.0
52.5°	492.9	490.6	487.6	488.4	486.9
55°	458.5	457.7	455.5	454.7	454.7
57.5°	424.0	424.8	423.3	420.3	421.1
60°	390.4	389.6	388.2	386.7	386.7
62.5°	356.0	356.0	353.0	353.0	350.0
65°	321.6	321.6	317.8	319.3	316.4
67.5°	287.2	286.4	284.2	283.4	284.2
70°	249.8	250.5	249.0	249.0	249.8
72.5°	216.1	215.4	214.6	214.6	216.1
75°	182.5	181.7	180.2	180.2	181.7
77.5°	151.8	148.1	147.3	148.8	146.6
80°	121.2	115.9	115.2	114.4	114.4
82.5°	85.3	83.0	83.8	83.0	84.5
85°	53.8	53.1	52.4	52.4	53.1
87.5°	25.4	23.9	23.9	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)