

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: P291990

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3050.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

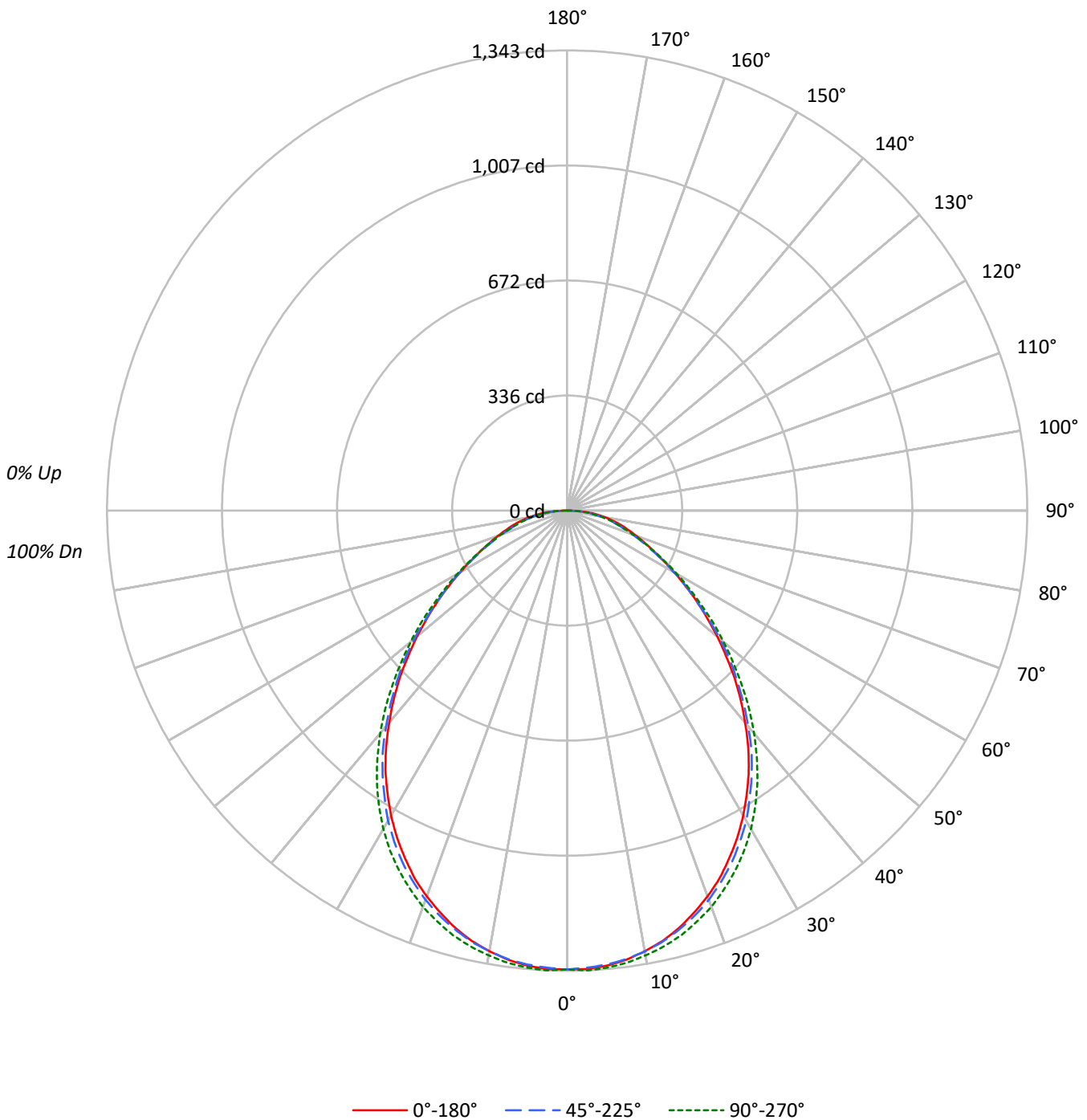
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3603	3603	3603
5°	3602	3592	3617
10°	3568	3570	3603
15°	3513	3525	3577
20°	3431	3461	3524
25°	3324	3370	3444
30°	3193	3248	3334
35°	3036	3085	3180
40°	2839	2886	2981
45°	2629	2669	2747
50°	2394	2432	2495
55°	2161	2168	2231
60°	1939	1946	1992
65°	1766	1731	1771
70°	1681	1587	1614
75°	1693	1530	1538
80°	1754	1547	1536
85°	1924	1639	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	4.1
10°-20°	357.3	11.7
20°-30°	523.0	17.1
30°-40°	588.0	19.3
40°-50°	542.3	17.8
50°-60°	418.0	13.7
60°-70°	275.8	9.0
70°-80°	160.5	5.3
80°-90°	58.5	1.9
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°	1006.9	33.0
0°-40°	1594.9	52.3
0°-60°	2555.2	83.8
0°-90°	3050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1333	1330	1330	1336	1339	126
15°	1261	1261	1265	1277	1284	355
25°	1120	1125	1135	1151	1160	515
35°	924	928	939	958	968	576
45°	691	691	701	716	722	532
55°	461	460	462	470	476	413
65°	277	276	272	274	278	278
75°	163	156	147	144	148	171
85°	62	62	53	49	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.0	1339.0	1339.0	1339.0	1339.0
2.5°	1339.0	1336.1	1335.4	1340.4	1343.2
5°	1333.3	1330.5	1329.8	1336.1	1339.0
7.5°	1322.0	1319.9	1320.6	1327.6	1331.2
10°	1305.7	1305.0	1306.4	1314.2	1318.4
12.5°	1286.6	1285.9	1288.7	1297.2	1302.9
15°	1261.1	1261.1	1265.4	1276.7	1283.8
17.5°	1230.7	1232.8	1239.2	1250.5	1258.3
20°	1198.1	1200.3	1208.7	1221.5	1230.7
22.5°	1162.0	1164.9	1173.4	1188.9	1196.7
25°	1119.6	1125.2	1135.1	1150.7	1159.9
27.5°	1075.7	1082.1	1091.3	1110.4	1118.9
30°	1027.6	1031.8	1045.3	1063.0	1072.9
32.5°	976.6	980.9	992.2	1013.4	1021.9
35°	924.3	928.5	939.1	958.2	968.1
37.5°	867.6	871.2	883.9	898.8	909.4
40°	808.2	813.1	821.6	839.3	848.5
42.5°	750.2	752.3	761.5	779.2	786.3
45°	690.7	691.4	701.3	715.5	721.9
47.5°	629.1	630.6	642.6	651.1	657.5
50°	571.8	572.5	581.0	588.8	595.9
52.5°	514.5	514.5	518.7	527.2	536.4
55°	460.7	460.0	462.1	469.9	475.6
57.5°	409.8	409.0	411.9	416.8	421.1
60°	360.2	358.8	361.6	364.5	370.1
62.5°	316.3	317.8	314.2	318.5	322.7
65°	277.4	276.0	271.8	273.9	278.1
67.5°	244.2	242.0	235.0	236.4	241.3
70°	213.7	209.5	201.7	201.7	205.2
72.5°	186.1	181.9	172.0	172.7	174.1
75°	162.8	155.7	147.2	144.4	147.9
77.5°	137.3	131.6	123.8	121.7	123.1
80°	113.2	109.0	99.8	97.0	99.1
82.5°	89.9	86.3	75.7	73.6	74.3
85°	62.3	61.6	53.1	48.8	50.2
87.5°	33.3	34.0	27.6	24.8	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)