

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: P291983

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291983
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2755.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

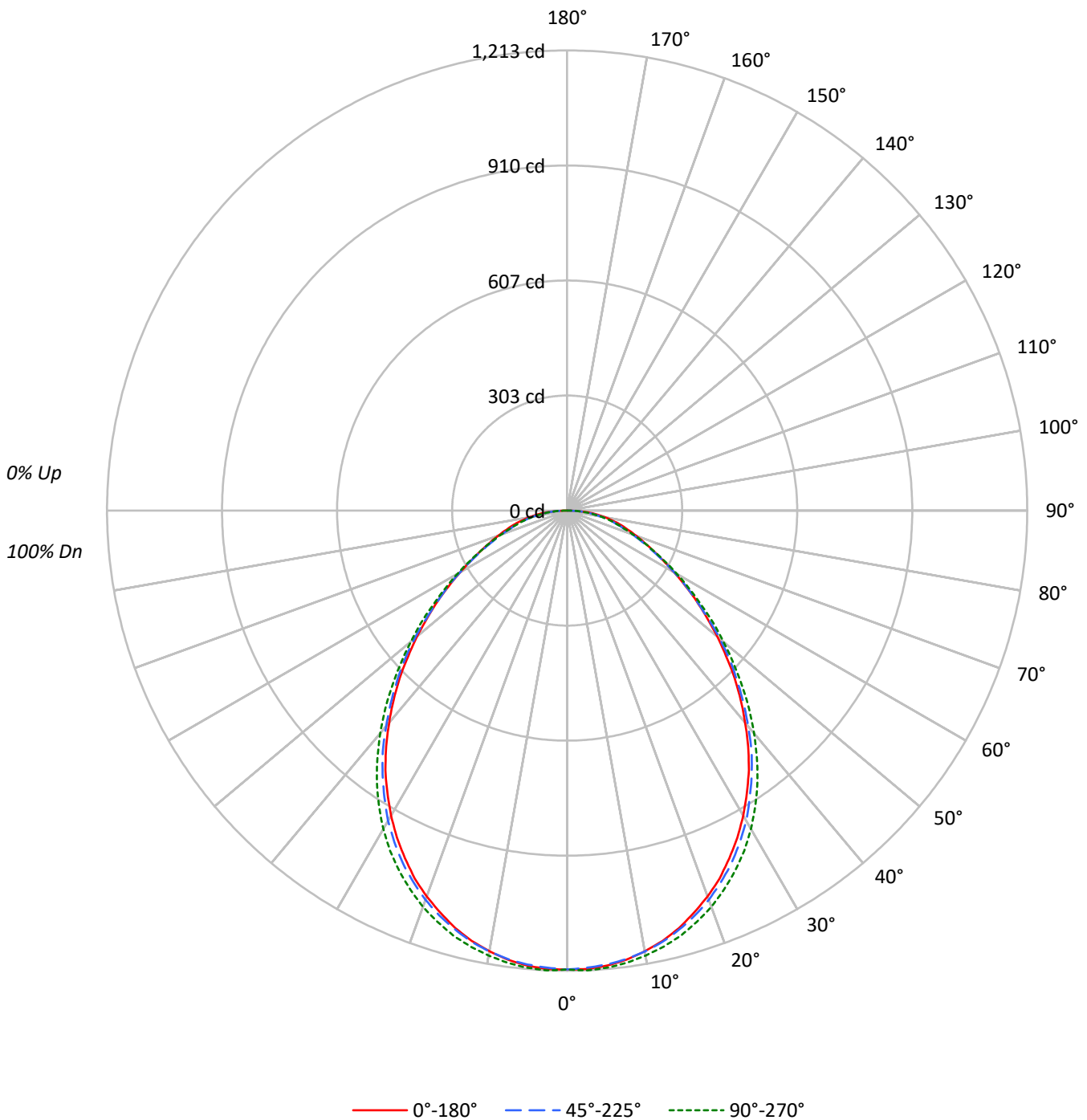
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3255	3255	3255
5°	3253	3244	3267
10°	3223	3225	3254
15°	3173	3184	3231
20°	3099	3127	3184
25°	3003	3045	3111
30°	2884	2934	3011
35°	2743	2787	2873
40°	2564	2607	2693
45°	2374	2411	2481
50°	2162	2197	2253
55°	1953	1958	2016
60°	1751	1758	1799
65°	1596	1563	1599
70°	1519	1434	1459
75°	1528	1383	1389
80°	1585	1396	1387
85°	1738	1479	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	4.1
10°-20°	322.8	11.7
20°-30°	472.4	17.1
30°-40°	531.2	19.3
40°-50°	489.8	17.8
50°-60°	377.5	13.7
60°-70°	249.1	9.0
70°-80°	145.0	5.3
80°-90°	52.8	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°	909.5	33.0
0°-40°	1440.7	52.3
0°-60°	2308.0	83.8
0°-90°	2755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1204	1202	1201	1207	1210	114
15°	1139	1139	1143	1153	1160	321
25°	1011	1016	1025	1039	1048	465
35°	835	839	848	866	874	521
45°	624	624	634	646	652	480
55°	416	416	417	424	430	373
65°	251	249	246	247	251	251
75°	147	141	133	130	134	155
85°	56	56	48	44	45	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1209.5	1209.5	1209.5	1209.5	1209.5
2.5°	1209.5	1206.9	1206.3	1210.7	1213.3
5°	1204.3	1201.8	1201.1	1206.9	1209.5
7.5°	1194.1	1192.2	1192.8	1199.2	1202.4
10°	1179.4	1178.8	1180.1	1187.1	1190.9
12.5°	1162.2	1161.5	1164.1	1171.7	1176.9
15°	1139.1	1139.1	1143.0	1153.2	1159.6
17.5°	1111.7	1113.6	1119.3	1129.6	1136.6
20°	1082.2	1084.2	1091.8	1103.3	1111.7
22.5°	1049.6	1052.2	1059.9	1073.9	1081.0
25°	1011.3	1016.4	1025.4	1039.4	1047.7
27.5°	971.7	977.4	985.7	1003.0	1010.7
30°	928.2	932.0	944.2	960.1	969.1
32.5°	882.2	886.0	896.2	915.4	923.1
35°	834.9	838.7	848.3	865.5	874.5
37.5°	783.7	786.9	798.4	811.8	821.4
40°	730.0	734.5	742.2	758.1	766.5
42.5°	677.6	679.5	687.8	703.8	710.2
45°	623.9	624.5	633.5	646.3	652.0
47.5°	568.3	569.6	580.4	588.1	593.9
50°	516.5	517.2	524.8	531.9	538.2
52.5°	464.7	464.7	468.6	476.2	484.5
55°	416.2	415.5	417.4	424.5	429.6
57.5°	370.1	369.5	372.0	376.5	380.4
60°	325.4	324.1	326.7	329.2	334.3
62.5°	285.7	287.0	283.8	287.7	291.5
65°	250.6	249.3	245.5	247.4	251.2
67.5°	220.5	218.6	212.2	213.5	218.0
70°	193.1	189.2	182.2	182.2	185.4
72.5°	168.1	164.3	155.3	156.0	157.3
75°	147.0	140.6	133.0	130.4	133.6
77.5°	124.0	118.9	111.9	110.0	111.2
80°	102.3	98.4	90.1	87.6	89.5
82.5°	81.2	78.0	68.4	66.5	67.1
85°	56.3	55.6	47.9	44.1	45.4
87.5°	30.0	30.7	24.9	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)