

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: P292476

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2631.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

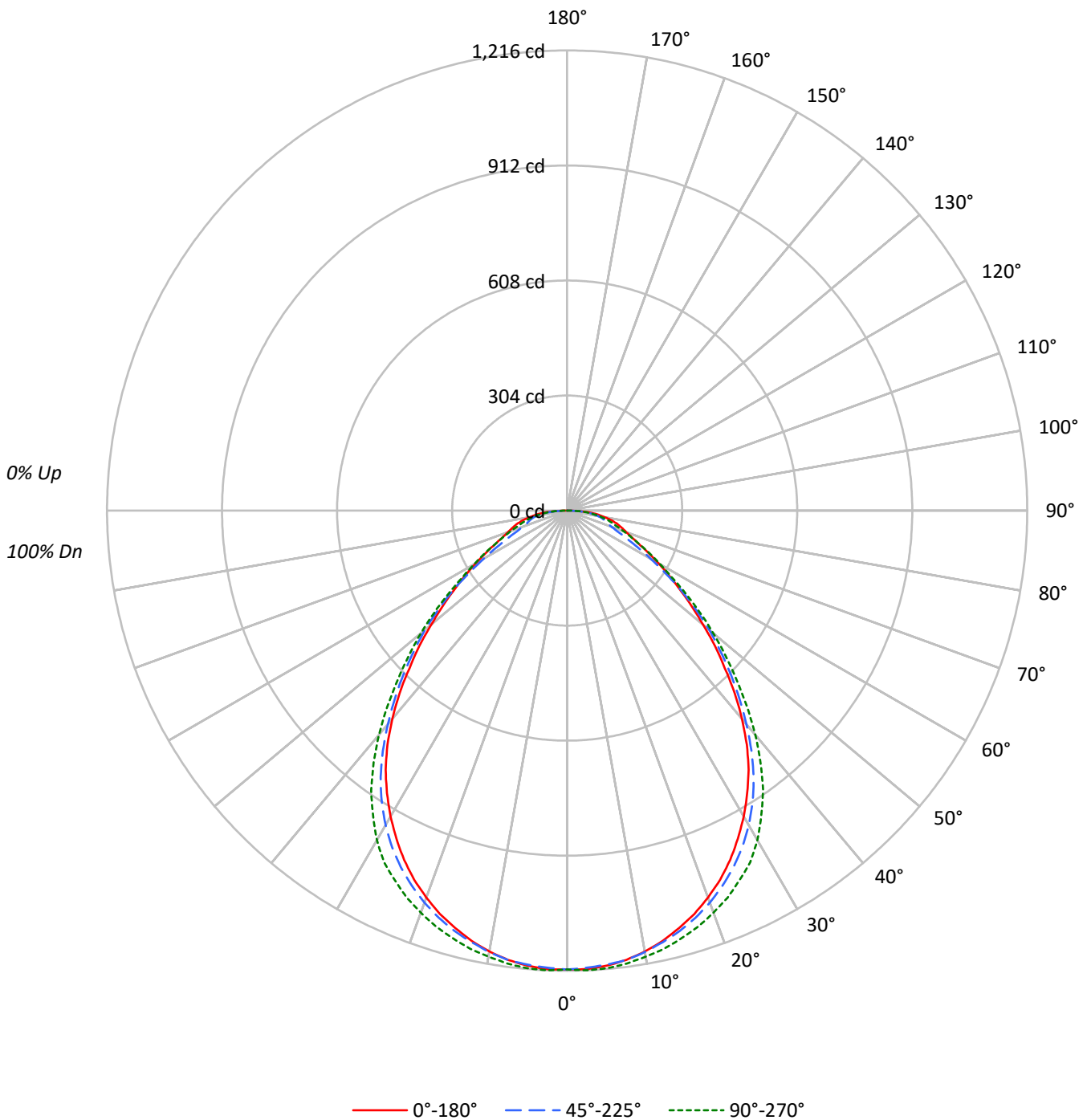
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3264	3264	3264
5°	3261	3253	3279
10°	3233	3237	3270
15°	3182	3204	3259
20°	3116	3157	3238
25°	3025	3087	3200
30°	2899	2981	3124
35°	2747	2823	2966
40°	2525	2588	2717
45°	2243	2325	2409
50°	1960	2049	2111
55°	1704	1727	1790
60°	1499	1373	1528
65°	1332	1098	1340
70°	1308	975	1235
75°	1429	1072	1263
80°	1568	1274	1350
85°	1874	1476	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	4.4
10°-20°	325.0	12.4
20°-30°	479.8	18.2
30°-40°	536.9	20.4
40°-50°	471.5	17.9
50°-60°	333.6	12.7
60°-70°	194.2	7.4
70°-80°	121.0	4.6
80°-90°	54.2	2.1
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°	919.5	34.9
0°-40°	1456.4	55.4
0°-60°	2261.6	86.0
0°-90°	2631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1207	1204	1204	1210	1214	114
15°	1142	1145	1150	1162	1170	322
25°	1019	1023	1040	1064	1078	468
35°	836	840	859	885	903	520
45°	590	596	611	626	633	456
55°	363	370	368	375	382	328
65°	209	193	172	188	210	212
75°	137	118	103	106	122	143
85°	61	63	48	47	49	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.8	1212.8	1212.8	1212.8	1212.8
2.5°	1212.8	1210.3	1209.1	1213.4	1215.8
5°	1207.2	1204.2	1204.2	1210.3	1214.0
7.5°	1197.4	1194.4	1198.0	1203.6	1207.2
10°	1183.3	1182.1	1184.5	1191.9	1196.8
12.5°	1164.9	1165.5	1168.0	1179.6	1185.8
15°	1142.2	1144.7	1150.2	1162.5	1169.8
17.5°	1117.7	1119.5	1128.1	1142.2	1152.6
20°	1088.2	1091.9	1102.3	1120.1	1130.6
22.5°	1055.7	1060.0	1072.9	1094.4	1107.2
25°	1018.9	1023.2	1039.8	1064.3	1077.8
27.5°	977.2	983.9	1002.4	1029.3	1047.7
30°	933.0	938.6	959.4	990.1	1005.4
32.5°	885.8	892.5	912.2	941.6	955.1
35°	836.1	839.8	859.4	885.2	903.0
37.5°	779.7	781.5	799.9	823.8	839.8
40°	718.9	720.2	736.7	759.4	773.5
42.5°	655.8	656.4	674.2	691.3	703.6
45°	589.5	596.3	611.0	625.7	633.1
47.5°	530.0	534.9	548.4	561.3	568.0
50°	468.1	480.3	489.5	496.3	504.2
52.5°	414.7	425.1	427.6	435.5	442.3
55°	363.2	370.5	368.1	374.8	381.6
57.5°	319.6	315.9	307.9	319.6	328.2
60°	278.5	268.7	255.2	271.1	284.0
62.5°	241.7	225.7	209.2	225.1	246.6
65°	209.2	192.6	172.4	187.7	210.4
67.5°	184.6	167.5	143.5	158.9	181.6
70°	166.2	148.5	123.9	136.8	157.0
72.5°	151.5	132.5	111.0	119.6	136.8
75°	137.4	118.4	103.1	105.5	121.5
77.5°	120.8	106.7	94.5	93.2	105.5
80°	101.2	96.9	82.2	80.4	87.1
82.5°	83.4	81.6	67.5	65.6	68.1
85°	60.7	63.2	47.8	46.6	49.1
87.5°	31.9	35.0	25.2	26.4	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)