

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: P292493

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292493
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-LD5-36-A125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

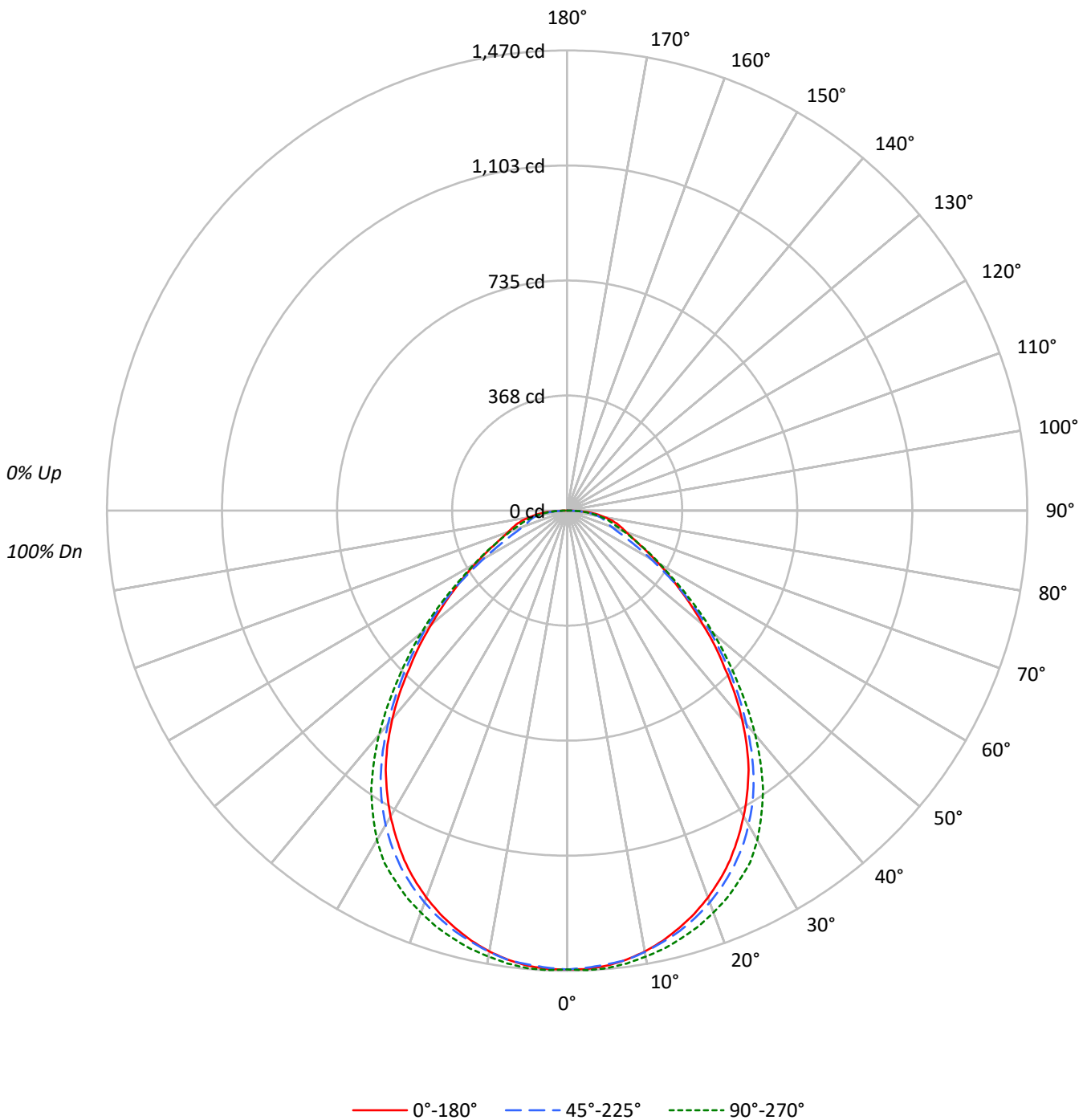
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3944	3944	3944
5°	3941	3931	3964
10°	3908	3912	3953
15°	3846	3873	3939
20°	3767	3816	3913
25°	3657	3731	3868
30°	3504	3603	3776
35°	3320	3413	3585
40°	3053	3128	3284
45°	2712	2810	2912
50°	2368	2477	2552
55°	2059	2087	2164
60°	1812	1660	1848
65°	1610	1326	1619
70°	1581	1179	1493
75°	1727	1295	1526
80°	1895	1540	1632
85°	2266	1785	1831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	4.4
10°-20°	392.9	12.4
20°-30°	580.0	18.2
30°-40°	649.0	20.4
40°-50°	569.9	17.9
50°-60°	403.3	12.7
60°-70°	234.7	7.4
70°-80°	146.3	4.6
80°-90°	65.5	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°	1111.4	34.9
0°-40°	1760.4	55.4
0°-60°	2733.5	86.0
0°-90°	3180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1459	1455	1455	1463	1467	138
15°	1381	1384	1390	1405	1414	389
25°	1232	1237	1257	1286	1303	566
35°	1011	1015	1039	1070	1091	628
45°	712	721	738	756	765	551
55°	439	448	445	453	461	397
65°	253	233	208	227	254	256
75°	166	143	125	128	147	173
85°	73	76	58	56	59	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.8	1465.8	1465.8	1465.8	1465.8
2.5°	1465.8	1462.9	1461.4	1466.6	1469.5
5°	1459.1	1455.4	1455.4	1462.9	1467.3
7.5°	1447.3	1443.6	1448.0	1454.7	1459.1
10°	1430.2	1428.8	1431.7	1440.6	1446.5
12.5°	1408.0	1408.7	1411.7	1425.8	1433.2
15°	1380.6	1383.5	1390.2	1405.0	1413.9
17.5°	1350.9	1353.1	1363.5	1380.6	1393.2
20°	1315.3	1319.8	1332.4	1353.9	1366.5
22.5°	1276.0	1281.2	1296.8	1322.7	1338.3
25°	1231.5	1236.7	1256.7	1286.4	1302.7
27.5°	1181.1	1189.3	1211.5	1244.1	1266.4
30°	1127.7	1134.4	1159.6	1196.7	1215.2
32.5°	1070.6	1078.8	1102.5	1138.1	1154.4
35°	1010.6	1015.0	1038.8	1069.9	1091.4
37.5°	942.4	944.6	966.8	995.8	1015.0
40°	869.0	870.4	890.5	917.9	935.0
42.5°	792.6	793.3	814.8	835.6	850.4
45°	712.5	720.7	738.5	756.3	765.2
47.5°	640.6	646.5	662.8	678.4	686.6
50°	565.7	580.5	591.7	599.8	609.5
52.5°	501.2	513.8	516.8	526.4	534.6
55°	438.9	447.8	444.9	453.0	461.2
57.5°	386.3	381.8	372.2	386.3	396.7
60°	336.6	324.7	308.4	327.7	343.3
62.5°	292.1	272.8	252.8	272.1	298.1
65°	252.8	232.8	208.3	226.9	254.3
67.5°	223.2	202.4	173.5	192.0	219.5
70°	200.9	179.4	149.8	165.3	189.8
72.5°	183.1	160.2	134.2	144.6	165.3
75°	166.1	143.1	124.6	127.5	146.8
77.5°	146.1	129.0	114.2	112.7	127.5
80°	122.3	117.1	99.4	97.1	105.3
82.5°	100.8	98.6	81.6	79.3	82.3
85°	73.4	76.4	57.8	56.3	59.3
87.5°	38.6	42.3	30.4	31.9	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)