

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: P292386

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292386
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-LD5-32-A125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

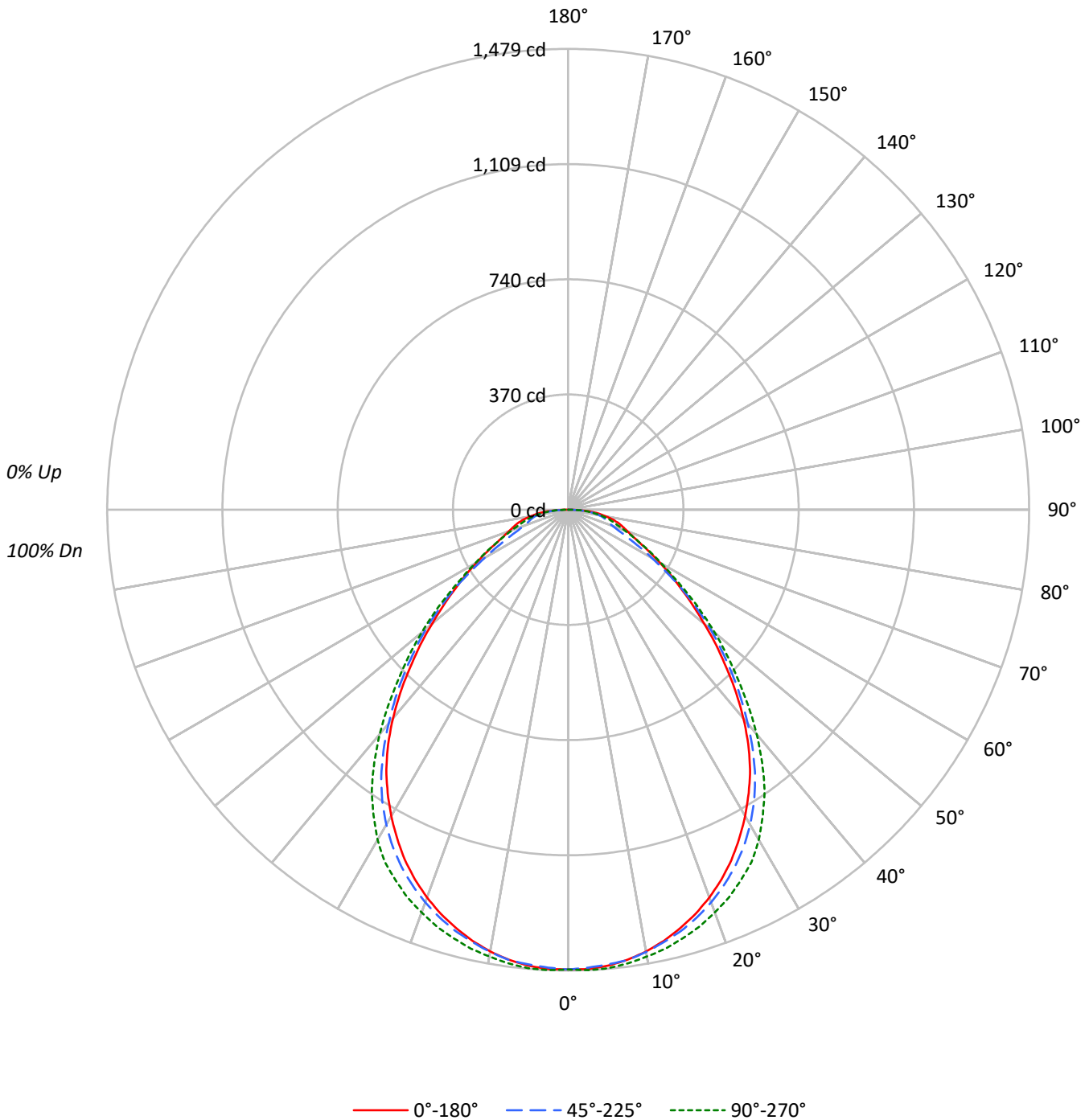
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3971	3971	3971
5°	3968	3958	3990
10°	3934	3938	3979
15°	3872	3899	3965
20°	3792	3841	3939
25°	3681	3756	3893
30°	3527	3627	3801
35°	3342	3435	3609
40°	3073	3149	3306
45°	2729	2829	2931
50°	2384	2493	2568
55°	2073	2101	2178
60°	1823	1671	1860
65°	1621	1335	1630
70°	1592	1186	1504
75°	1738	1304	1537
80°	1908	1550	1643
85°	2282	1797	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	4.4
10°-20°	395.5	12.4
20°-30°	583.8	18.2
30°-40°	653.3	20.4
40°-50°	573.7	17.9
50°-60°	405.9	12.7
60°-70°	236.3	7.4
70°-80°	147.2	4.6
80°-90°	65.9	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°	1118.7	34.9
0°-40°	1772.0	55.4
0°-60°	2751.6	86.0
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1469	1465	1465	1472	1477	139
15°	1390	1393	1399	1414	1423	392
25°	1240	1245	1265	1295	1311	569
35°	1017	1022	1046	1077	1099	633
45°	717	725	743	761	770	555
55°	442	451	448	456	464	399
65°	254	234	210	228	256	258
75°	167	144	125	128	148	175
85°	74	77	58	57	60	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475.5	1475.5	1475.5	1475.5	1475.5
2.5°	1475.5	1472.5	1471.0	1476.2	1479.2
5°	1468.8	1465.1	1465.1	1472.5	1477.0
7.5°	1456.8	1453.1	1457.6	1464.3	1468.8
10°	1439.7	1438.2	1441.2	1450.1	1456.1
12.5°	1417.3	1418.0	1421.0	1435.2	1442.7
15°	1389.7	1392.7	1399.4	1414.3	1423.3
17.5°	1359.8	1362.1	1372.5	1389.7	1402.4
20°	1324.0	1328.5	1341.2	1362.8	1375.5
22.5°	1284.4	1289.7	1305.3	1331.5	1347.1
25°	1239.7	1244.9	1265.0	1294.9	1311.3
27.5°	1188.9	1197.1	1219.5	1252.3	1274.7
30°	1135.2	1141.9	1167.3	1204.6	1223.2
32.5°	1077.7	1085.9	1109.8	1145.6	1162.0
35°	1017.3	1021.7	1045.6	1077.0	1098.6
37.5°	948.6	950.8	973.2	1002.3	1021.7
40°	874.7	876.2	896.3	924.0	941.1
42.5°	797.8	798.6	820.2	841.1	856.0
45°	717.2	725.4	743.3	761.3	770.2
47.5°	644.8	650.8	667.2	682.9	691.1
50°	569.5	584.4	595.6	603.8	613.5
52.5°	504.5	517.2	520.2	529.9	538.1
55°	441.8	450.8	447.8	456.0	464.2
57.5°	388.8	384.4	374.7	388.8	399.3
60°	338.8	326.9	310.5	329.9	345.6
62.5°	294.1	274.7	254.5	273.9	300.0
65°	254.5	234.3	209.7	228.4	256.0
67.5°	224.6	203.7	174.6	193.3	220.9
70°	202.3	180.6	150.8	166.4	191.1
72.5°	184.3	161.2	135.1	145.5	166.4
75°	167.2	144.0	125.4	128.4	147.8
77.5°	147.0	129.9	114.9	113.4	128.4
80°	123.1	117.9	100.0	97.8	106.0
82.5°	101.5	99.3	82.1	79.9	82.8
85°	73.9	76.9	58.2	56.7	59.7
87.5°	38.8	42.5	30.6	32.1	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)