

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: P292336

Luminaire Tested: **22GR-LD5-32-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292336
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

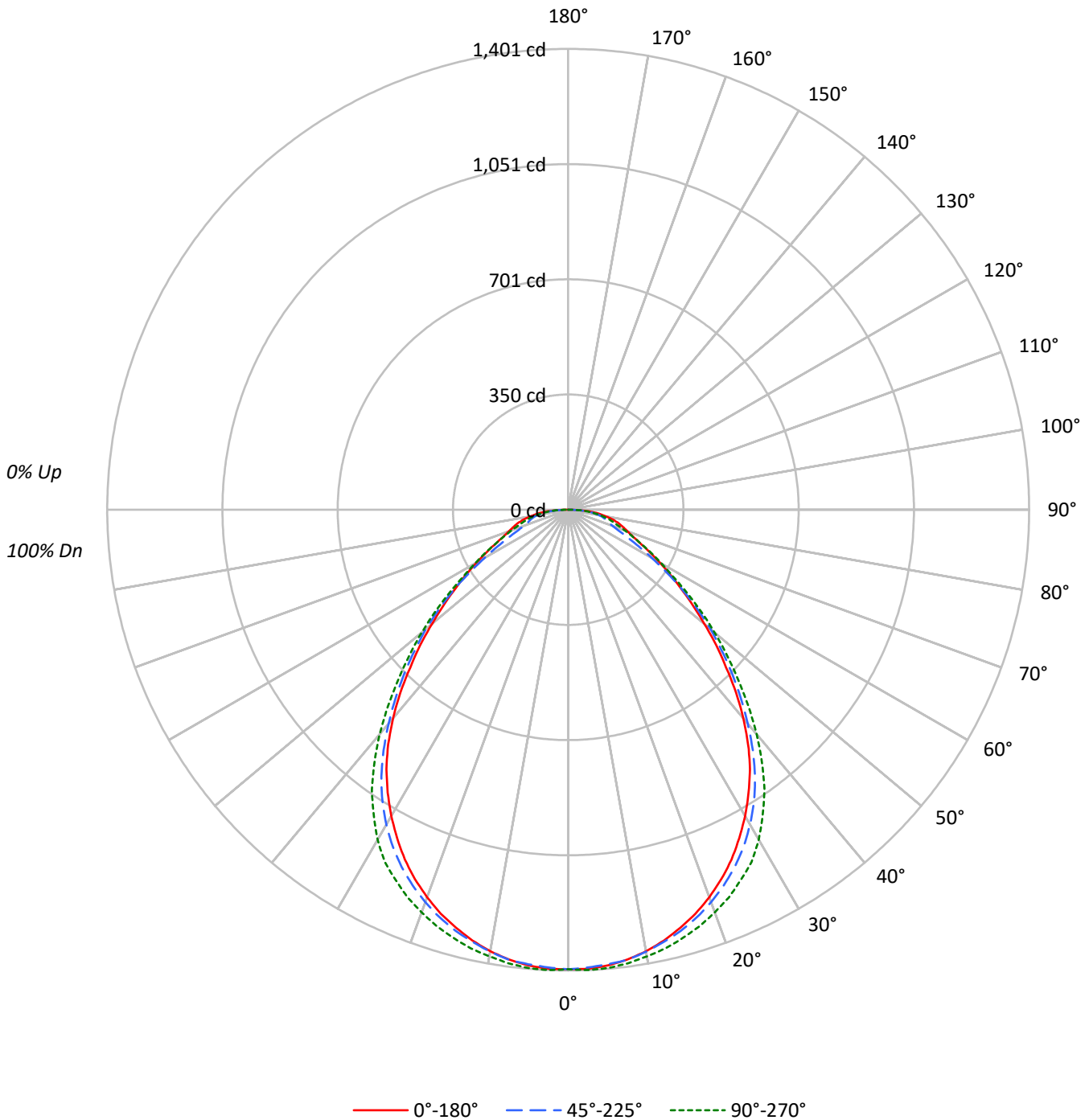
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3760	3760	3760
5°	3757	3747	3778
10°	3725	3729	3768
15°	3666	3692	3755
20°	3590	3637	3730
25°	3485	3557	3687
30°	3340	3434	3599
35°	3164	3253	3417
40°	2909	2981	3130
45°	2584	2679	2775
50°	2257	2361	2432
55°	1963	1989	2062
60°	1727	1582	1761
65°	1535	1265	1543
70°	1507	1124	1423
75°	1646	1234	1455
80°	1807	1468	1556
85°	2161	1701	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	4.4
10°-20°	374.5	12.4
20°-30°	552.8	18.2
30°-40°	618.6	20.4
40°-50°	543.2	17.9
50°-60°	384.4	12.7
60°-70°	223.7	7.4
70°-80°	139.4	4.6
80°-90°	62.4	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°	1059.3	34.9
0°-40°	1677.9	55.4
0°-60°	2605.4	86.0
0°-90°	3031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1391	1387	1387	1394	1399	132
15°	1316	1319	1325	1339	1348	371
25°	1174	1179	1198	1226	1242	539
35°	963	968	990	1020	1040	599
45°	679	687	704	721	729	525
55°	418	427	424	432	440	378
65°	241	222	199	216	242	244
75°	158	136	119	122	140	165
85°	70	73	55	54	56	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.1	1397.1	1397.1	1397.1	1397.1
2.5°	1397.1	1394.3	1392.9	1397.8	1400.7
5°	1390.8	1387.2	1387.2	1394.3	1398.6
7.5°	1379.5	1375.9	1380.2	1386.5	1390.8
10°	1363.2	1361.8	1364.6	1373.1	1378.8
12.5°	1342.0	1342.7	1345.6	1359.0	1366.0
15°	1315.9	1318.7	1325.1	1339.2	1347.7
17.5°	1287.6	1289.7	1299.6	1315.9	1327.9
20°	1253.7	1257.9	1269.9	1290.4	1302.4
22.5°	1216.2	1221.2	1236.0	1260.7	1275.6
25°	1173.8	1178.8	1197.9	1226.1	1241.7
27.5°	1125.8	1133.5	1154.7	1185.8	1207.0
30°	1074.9	1081.2	1105.3	1140.6	1158.3
32.5°	1020.5	1028.2	1050.9	1084.8	1100.3
35°	963.2	967.5	990.1	1019.8	1040.3
37.5°	898.2	900.3	921.5	949.1	967.5
40°	828.2	829.7	848.7	874.9	891.1
42.5°	755.5	756.2	776.7	796.4	810.6
45°	679.1	686.9	703.9	720.8	729.3
47.5°	610.6	616.2	631.8	646.6	654.4
50°	539.2	553.3	563.9	571.7	580.9
52.5°	477.7	489.7	492.6	501.8	509.5
55°	418.4	426.8	424.0	431.8	439.6
57.5°	368.2	363.9	354.8	368.2	378.1
60°	320.8	309.5	294.0	312.4	327.2
62.5°	278.4	260.1	241.0	259.4	284.1
65°	241.0	221.9	198.6	216.2	242.4
67.5°	212.7	192.9	165.4	183.0	209.2
70°	191.5	171.0	142.8	157.6	180.9
72.5°	174.6	152.6	127.9	137.8	157.6
75°	158.3	136.4	118.7	121.6	139.9
77.5°	139.2	123.0	108.8	107.4	121.6
80°	116.6	111.7	94.7	92.6	100.4
82.5°	96.1	94.0	77.7	75.6	78.4
85°	70.0	72.8	55.1	53.7	56.5
87.5°	36.7	40.3	29.0	30.4	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)