

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: P292384

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292384
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-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: 3028.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

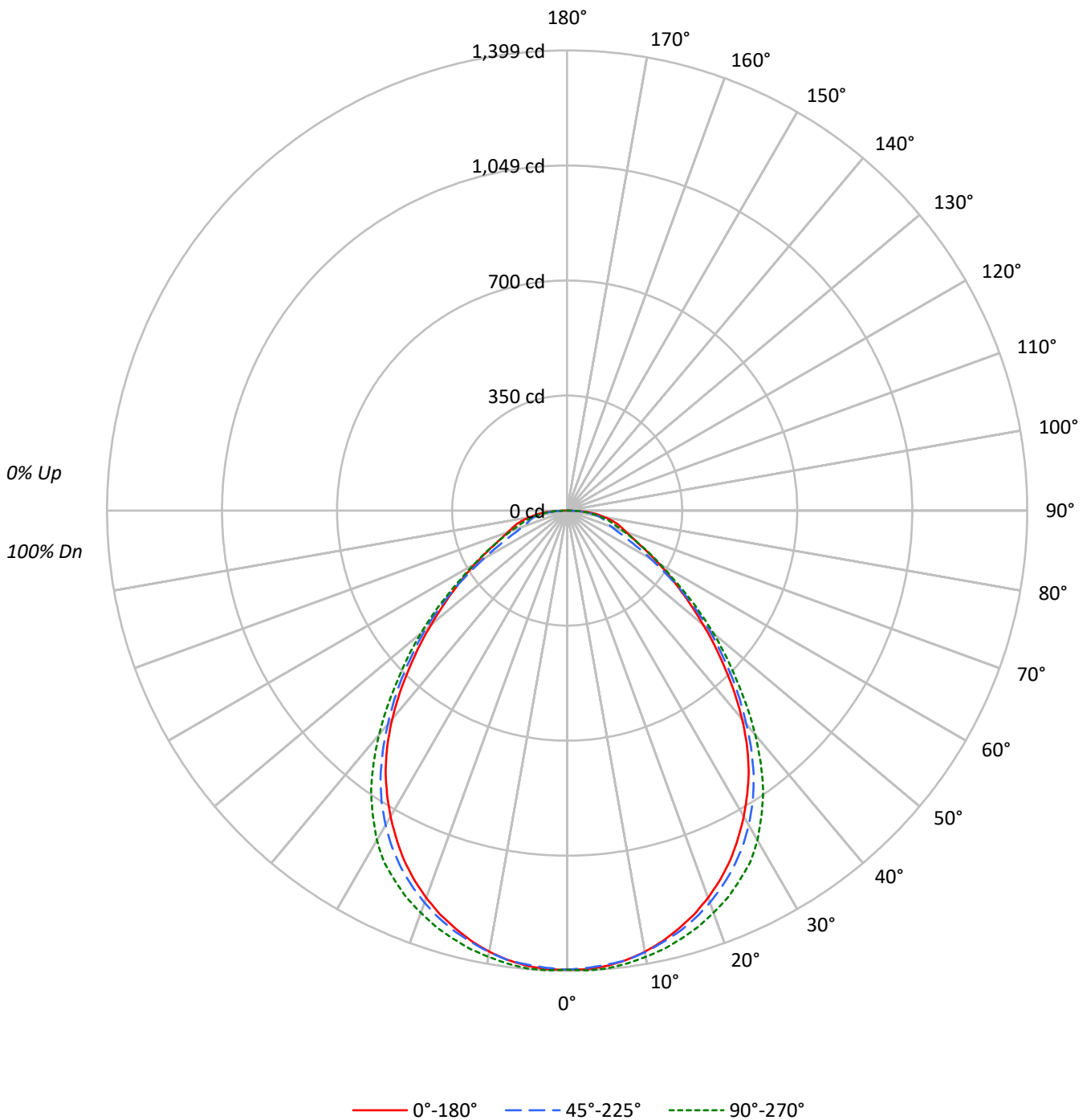
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3756	3756	3756
5°	3753	3744	3774
10°	3721	3725	3764
15°	3662	3688	3751
20°	3586	3633	3726
25°	3482	3553	3683
30°	3337	3431	3595
35°	3161	3249	3414
40°	2907	2979	3127
45°	2582	2676	2773
50°	2255	2359	2429
55°	1961	1987	2060
60°	1725	1581	1759
65°	1533	1263	1542
70°	1505	1122	1422
75°	1644	1233	1454
80°	1805	1466	1554
85°	2158	1701	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.4
10°-20°	374.1	12.4
20°-30°	552.3	18.2
30°-40°	618.0	20.4
40°-50°	542.7	17.9
50°-60°	384.0	12.7
60°-70°	223.5	7.4
70°-80°	139.3	4.6
80°-90°	62.3	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°	1058.3	34.9
0°-40°	1676.2	55.4
0°-60°	2602.9	86.0
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1389	1386	1386	1393	1397	132
15°	1315	1317	1324	1338	1346	370
25°	1173	1178	1197	1225	1240	539
35°	962	966	989	1019	1039	598
45°	678	686	703	720	729	525
55°	418	426	424	431	439	378
65°	241	222	198	216	242	244
75°	158	136	119	121	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°	1395.8	1395.8	1395.8	1395.8	<i>1395.8</i>
2.5°	<i>1395.8</i>	<i>1392.9</i>	<i>1391.5</i>	<i>1396.5</i>	<i>1399.3</i>
5°	1389.4	1385.9	1385.9	1392.9	<i>1397.2</i>
7.5°	1378.1	1374.6	1378.8	1385.2	<i>1389.4</i>
10°	1361.9	1360.5	1363.3	1371.8	<i>1377.4</i>
12.5°	1340.7	1341.4	1344.2	1357.6	<i>1364.7</i>
15°	1314.6	1317.4	1323.7	1337.9	<i>1346.3</i>
17.5°	1286.3	1288.4	1298.3	1314.6	<i>1326.6</i>
20°	1252.4	1256.7	1268.7	1289.2	<i>1301.2</i>
22.5°	1215.0	1220.0	1234.8	1259.5	<i>1274.3</i>
25°	1172.7	1177.6	1196.7	1224.9	<i>1240.4</i>
27.5°	1124.7	1132.4	1153.6	1184.7	<i>1205.8</i>
30°	1073.8	1080.2	1104.2	1139.5	<i>1157.1</i>
32.5°	1019.5	1027.2	1049.8	1083.7	<i>1099.2</i>
35°	962.3	966.5	989.1	1018.8	<i>1039.2</i>
37.5°	897.3	899.4	920.6	948.2	<i>966.5</i>
40°	827.4	828.8	847.9	874.0	<i>890.3</i>
42.5°	754.7	755.4	775.9	795.7	<i>809.8</i>
45°	678.5	686.2	703.2	720.1	<i>728.6</i>
47.5°	610.0	615.6	631.2	646.0	<i>653.8</i>
50°	538.7	552.8	563.4	571.2	<i>580.3</i>
52.5°	477.3	489.3	492.1	501.3	<i>509.0</i>
55°	418.0	426.4	423.6	431.4	<i>439.1</i>
57.5°	367.8	363.6	354.4	367.8	<i>377.7</i>
60°	320.5	309.2	293.7	312.1	<i>326.9</i>
62.5°	278.2	259.8	240.7	259.1	<i>283.8</i>
65°	240.7	221.7	198.4	216.0	<i>242.2</i>
67.5°	212.5	192.7	165.2	182.9	<i>209.0</i>
70°	191.3	170.9	142.6	157.4	<i>180.7</i>
72.5°	174.4	152.5	127.8	137.7	<i>157.4</i>
75°	158.1	136.3	118.6	121.4	<i>139.8</i>
77.5°	139.1	122.8	108.7	107.3	<i>121.4</i>
80°	116.5	111.5	94.6	92.5	<i>100.3</i>
82.5°	96.0	93.9	77.7	75.5	<i>78.4</i>
85°	69.9	72.7	55.1	53.7	<i>56.5</i>
87.5°	36.7	40.2	28.9	30.4	<i>31.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)