

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: P292377

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292377
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-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: 2899.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

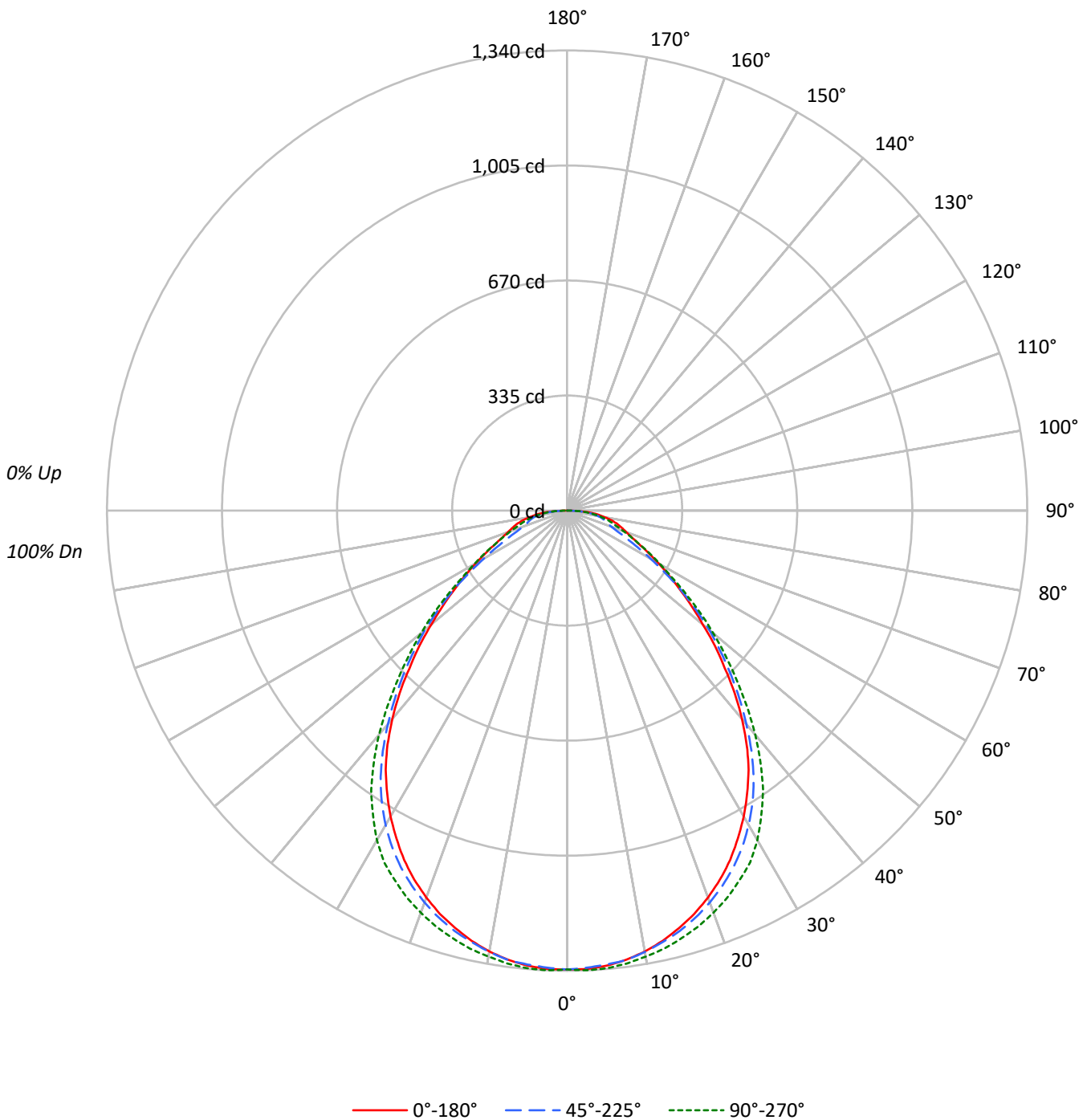
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3596	3596	3596
5°	3593	3584	3613
10°	3563	3566	3603
15°	3506	3531	3591
20°	3434	3478	3567
25°	3333	3402	3526
30°	3195	3285	3442
35°	3027	3111	3269
40°	2783	2852	2994
45°	2472	2562	2655
50°	2159	2258	2326
55°	1877	1903	1972
60°	1652	1513	1685
65°	1468	1209	1476
70°	1441	1074	1361
75°	1574	1181	1391
80°	1728	1404	1488
85°	2066	1627	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	4.4
10°-20°	358.2	12.4
20°-30°	528.7	18.2
30°-40°	591.6	20.4
40°-50°	519.6	17.9
50°-60°	367.6	12.7
60°-70°	214.0	7.4
70°-80°	133.4	4.6
80°-90°	59.7	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°	1013.2	34.9
0°-40°	1604.8	55.4
0°-60°	2492.0	86.0
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1330	1327	1327	1334	1338	126
15°	1259	1261	1267	1281	1289	355
25°	1123	1127	1146	1173	1188	516
35°	921	925	947	975	995	573
45°	650	657	673	689	698	502
55°	400	408	406	413	420	362
65°	230	212	190	207	232	234
75°	151	130	114	116	134	158
85°	67	70	53	51	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.3	1336.3	1336.3	1336.3	<i>1336.3</i>
2.5°	<i>1336.3</i>	<i>1333.6</i>	<i>1332.2</i>	<i>1337.0</i>	<i>1339.7</i>
5°	1330.2	1326.8	1326.8	1333.6	<i>1337.6</i>
7.5°	1319.4	1316.0	1320.1	1326.2	<i>1330.2</i>
10°	1303.9	1302.5	1305.2	1313.3	<i>1318.7</i>
12.5°	1283.6	1284.2	1287.0	1299.8	<i>1306.6</i>
15°	1258.6	1261.3	1267.4	1280.9	<i>1289.0</i>
17.5°	1231.5	1233.6	1243.0	1258.6	<i>1270.1</i>
20°	1199.1	1203.1	1214.6	1234.2	<i>1245.7</i>
22.5°	1163.3	1168.0	1182.2	1205.8	<i>1220.0</i>
25°	1122.7	1127.4	1145.7	1172.7	<i>1187.6</i>
27.5°	1076.7	1084.2	1104.5	1134.2	<i>1154.5</i>
30°	1028.1	1034.2	1057.1	1090.9	<i>1107.8</i>
32.5°	976.0	983.5	1005.1	1037.5	<i>1052.4</i>
35°	921.3	925.3	947.0	975.4	<i>995.0</i>
37.5°	859.1	861.1	881.4	907.8	<i>925.3</i>
40°	792.2	793.5	811.8	836.8	<i>852.3</i>
42.5°	722.6	723.2	742.8	761.8	<i>775.3</i>
45°	649.6	657.0	673.2	689.4	<i>697.6</i>
47.5°	584.0	589.4	604.3	618.5	<i>625.9</i>
50°	515.7	529.2	539.4	546.8	<i>555.6</i>
52.5°	456.9	468.4	471.1	479.9	<i>487.3</i>
55°	400.1	408.3	405.6	413.0	<i>420.4</i>
57.5°	352.2	348.1	339.3	352.2	<i>361.6</i>
60°	306.9	296.1	281.2	298.8	<i>313.0</i>
62.5°	266.3	248.7	230.5	248.1	<i>271.7</i>
65°	230.5	212.2	189.9	206.8	<i>231.8</i>
67.5°	203.5	184.5	158.2	175.1	<i>200.1</i>
70°	183.2	163.6	136.5	150.7	<i>173.0</i>
72.5°	167.0	146.0	122.3	131.8	<i>150.7</i>
75°	151.4	130.5	113.6	116.3	<i>133.8</i>
77.5°	133.2	117.6	104.1	102.7	<i>116.3</i>
80°	111.5	106.8	90.6	88.5	<i>96.0</i>
82.5°	91.9	89.9	74.4	72.3	<i>75.0</i>
85°	66.9	69.6	52.7	51.4	<i>54.1</i>
87.5°	35.1	38.5	27.7	29.1	<i>29.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)