

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: P292380

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292380
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3019.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

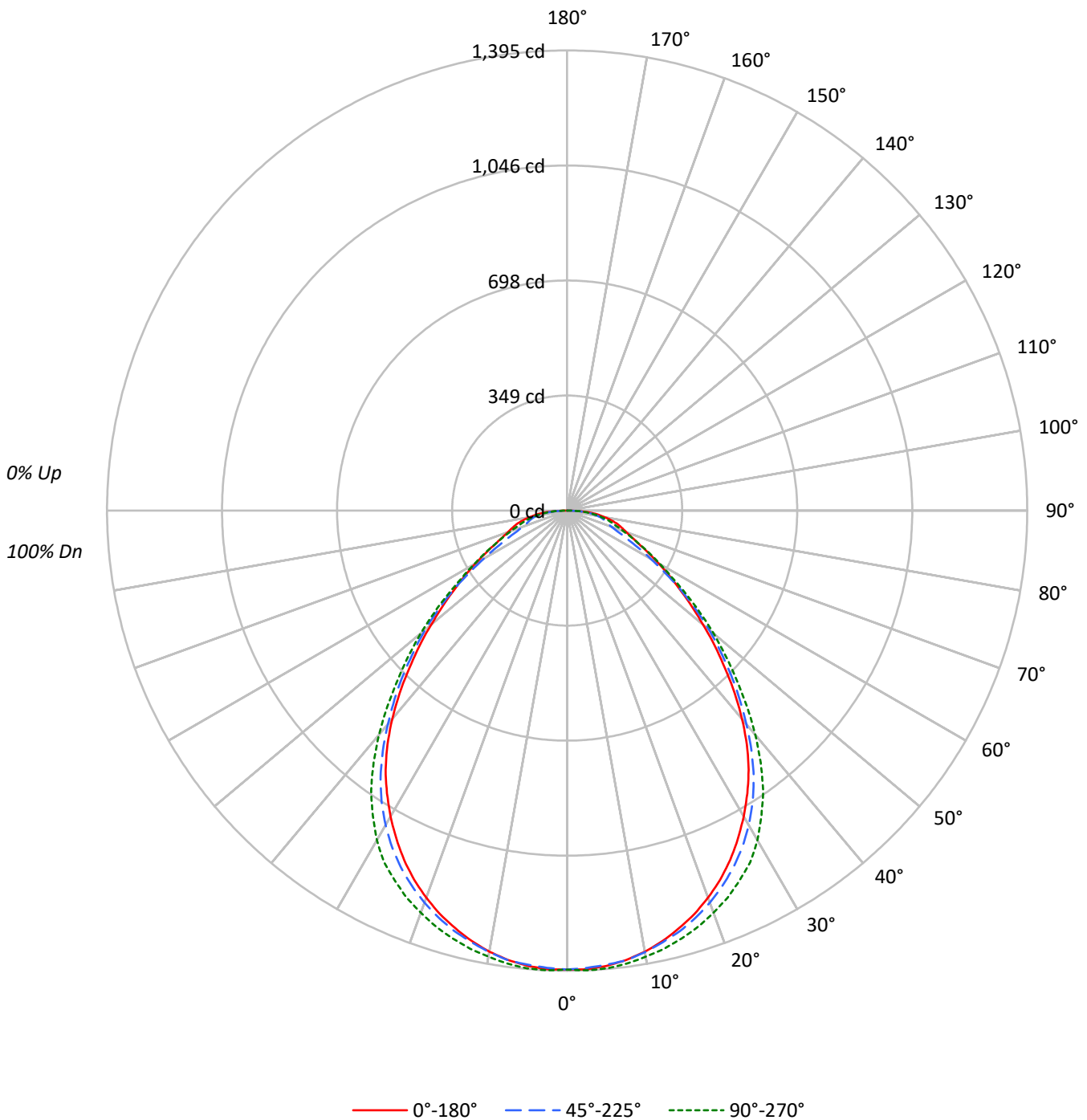
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3745	3745	3745
5°	3742	3733	3763
10°	3710	3714	3753
15°	3651	3677	3740
20°	3576	3622	3715
25°	3472	3543	3672
30°	3327	3421	3585
35°	3152	3240	3404
40°	2898	2970	3118
45°	2574	2668	2764
50°	2249	2352	2422
55°	1955	1981	2054
60°	1720	1576	1754
65°	1528	1259	1537
70°	1501	1119	1418
75°	1640	1230	1449
80°	1799	1461	1550
85°	2152	1695	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.4
10°-20°	373.0	12.4
20°-30°	550.6	18.2
30°-40°	616.1	20.4
40°-50°	541.1	17.9
50°-60°	382.8	12.7
60°-70°	222.8	7.4
70°-80°	138.9	4.6
80°-90°	62.1	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°	1055.1	34.9
0°-40°	1671.2	55.4
0°-60°	2595.2	86.0
0°-90°	3019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1385	1382	1382	1389	1393	131
15°	1311	1314	1320	1334	1342	369
25°	1169	1174	1193	1221	1237	537
35°	959	964	986	1016	1036	597
45°	676	684	701	718	726	523
55°	417	425	422	430	438	377
65°	240	221	198	215	241	243
75°	158	136	118	121	139	165
85°	70	72	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°	1391.6	1391.6	1391.6	1391.6	<i>1391.6</i>
2.5°	<i>1391.6</i>	<i>1388.8</i>	<i>1387.4</i>	<i>1392.3</i>	<i>1395.1</i>
5°	1385.3	1381.8	1381.8	1388.8	<i>1393.0</i>
7.5°	1374.0	1370.5	1374.7	1381.1	<i>1385.3</i>
10°	1357.8	1356.4	1359.2	1367.7	<i>1373.3</i>
12.5°	1336.7	1337.4	1340.2	1353.6	<i>1360.6</i>
15°	1310.7	1313.5	1319.8	1333.9	<i>1342.3</i>
17.5°	1282.5	1284.6	1294.5	1310.7	<i>1322.6</i>
20°	1248.7	1252.9	1264.9	1285.3	<i>1297.3</i>
22.5°	1211.4	1216.3	1231.1	1255.8	<i>1270.5</i>
25°	1169.2	1174.1	1193.1	1221.3	<i>1236.8</i>
27.5°	1121.3	1129.1	1150.2	1181.1	<i>1202.3</i>
30°	1070.6	1077.0	1100.9	1136.1	<i>1153.7</i>
32.5°	1016.4	1024.2	1046.7	1080.5	<i>1096.0</i>
35°	959.4	963.6	986.2	1015.7	<i>1036.1</i>
37.5°	894.7	896.8	917.9	945.3	<i>963.6</i>
40°	825.0	826.4	845.4	871.4	<i>887.6</i>
42.5°	752.5	753.2	773.6	793.3	<i>807.4</i>
45°	676.4	684.2	701.1	718.0	<i>726.4</i>
47.5°	608.2	613.8	629.3	644.1	<i>651.8</i>
50°	537.1	551.2	561.7	569.5	<i>578.6</i>
52.5°	475.8	487.8	490.6	499.8	<i>507.5</i>
55°	416.7	425.2	422.3	430.1	<i>437.8</i>
57.5°	366.7	362.5	353.4	366.7	<i>376.6</i>
60°	319.6	308.3	292.8	311.1	<i>325.9</i>
62.5°	277.3	259.0	240.0	258.3	<i>283.0</i>
65°	240.0	221.0	197.8	215.4	<i>241.4</i>
67.5°	211.9	192.2	164.7	182.3	<i>208.4</i>
70°	190.8	170.3	142.2	157.0	<i>180.2</i>
72.5°	173.9	152.0	127.4	137.3	<i>157.0</i>
75°	157.7	135.9	118.3	121.1	<i>139.4</i>
77.5°	138.7	122.5	108.4	107.0	<i>121.1</i>
80°	116.1	111.2	94.3	92.2	<i>100.0</i>
82.5°	95.7	93.6	77.4	75.3	<i>78.1</i>
85°	69.7	72.5	54.9	53.5	<i>56.3</i>
87.5°	36.6	40.1	28.9	30.3	<i>31.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)