

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: P292373

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292373
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-LD5-24-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

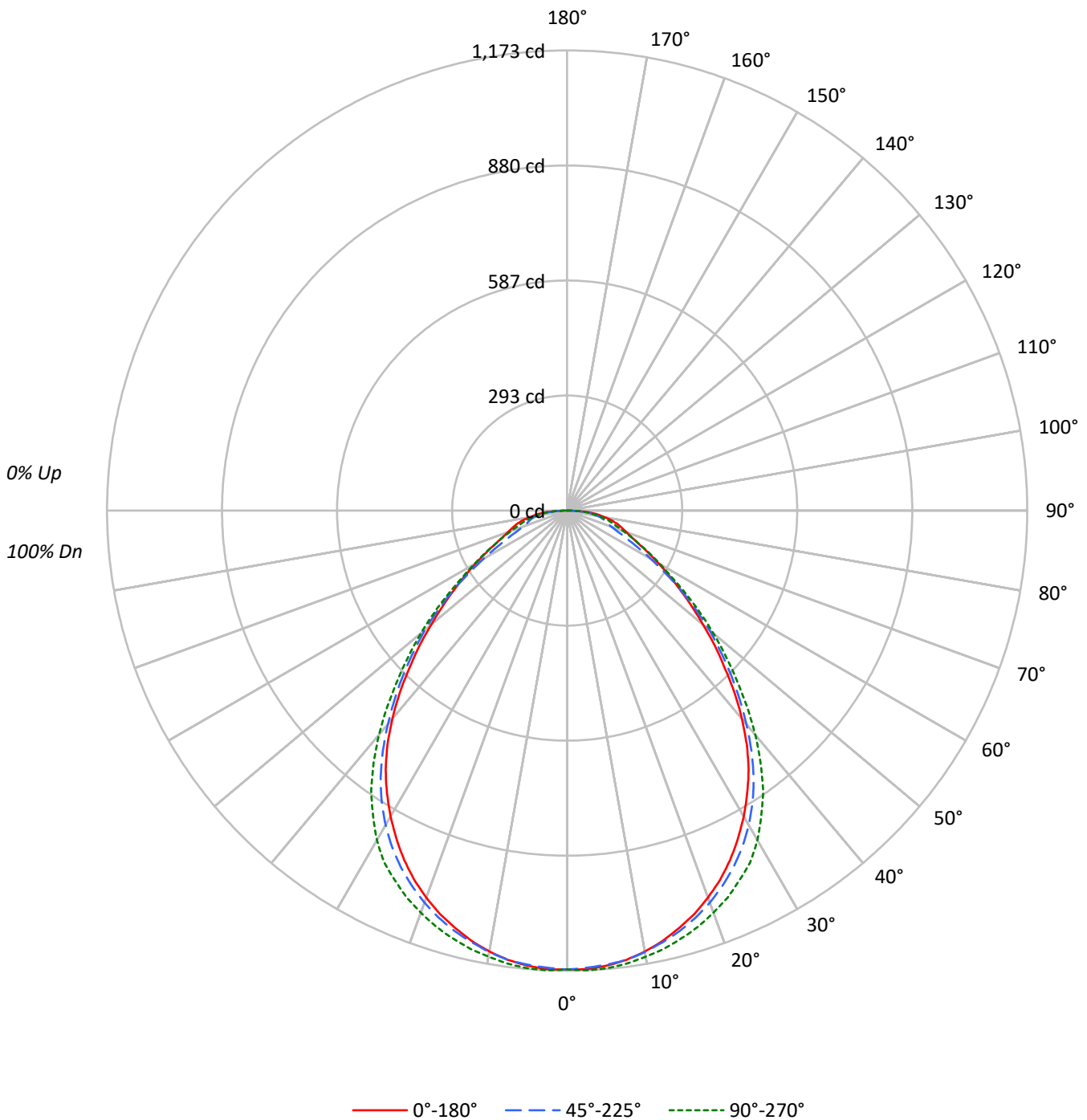
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3148	3148	3148
5°	3146	3138	3163
10°	3119	3122	3155
15°	3070	3091	3144
20°	3006	3045	3123
25°	2918	2978	3087
30°	2797	2876	3014
35°	2650	2723	2862
40°	2436	2497	2621
45°	2164	2243	2324
50°	1890	1977	2036
55°	1643	1666	1727
60°	1446	1325	1475
65°	1285	1059	1293
70°	1262	940	1192
75°	1379	1033	1219
80°	1512	1229	1302
85°	1809	1426	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	4.4
10°-20°	313.6	12.4
20°-30°	462.9	18.2
30°-40°	518.0	20.4
40°-50°	454.9	17.9
50°-60°	321.9	12.7
60°-70°	187.4	7.4
70°-80°	116.8	4.6
80°-90°	52.2	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°	887.0	34.9
0°-40°	1405.0	55.4
0°-60°	2181.7	86.0
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1165	1162	1162	1168	1171	110
15°	1102	1104	1110	1121	1128	310
25°	983	987	1003	1027	1040	451
35°	807	810	829	854	871	502
45°	569	575	589	604	611	440
55°	350	357	355	362	368	317
65°	202	186	166	181	203	205
75°	133	114	99	102	117	138
85°	59	61	46	45	47	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.9	1169.9	1169.9	1169.9	<i>1169.9</i>
2.5°	<i>1169.9</i>	<i>1167.5</i>	<i>1166.3</i>	<i>1170.5</i>	<i>1172.9</i>
5°	1164.6	1161.6	1161.6	1167.5	<i>1171.1</i>
7.5°	1155.1	1152.1	1155.7	1161.0	<i>1164.6</i>
10°	1141.5	1140.3	1142.7	1149.8	<i>1154.5</i>
12.5°	1123.7	1124.3	1126.7	1137.9	<i>1143.9</i>
15°	1101.8	1104.2	1109.5	1121.4	<i>1128.5</i>
17.5°	1078.2	1079.9	1088.2	1101.8	<i>1111.9</i>
20°	1049.8	1053.3	1063.4	1080.5	<i>1090.6</i>
22.5°	1018.4	1022.5	1035.0	1055.7	<i>1068.1</i>
25°	982.9	987.0	1003.0	1026.7	<i>1039.7</i>
27.5°	942.7	949.2	966.9	993.0	<i>1010.7</i>
30°	900.1	905.4	925.5	955.1	<i>969.9</i>
32.5°	854.5	861.0	879.9	908.3	<i>921.4</i>
35°	806.6	810.1	829.0	853.9	<i>871.1</i>
37.5°	752.1	753.9	771.6	794.7	<i>810.1</i>
40°	693.5	694.7	710.7	732.6	<i>746.2</i>
42.5°	632.6	633.2	650.3	666.9	<i>678.7</i>
45°	568.7	575.2	589.4	603.6	<i>610.7</i>
47.5°	511.3	516.0	529.0	541.5	<i>548.0</i>
50°	451.5	463.3	472.2	478.7	<i>486.4</i>
52.5°	400.0	410.1	412.5	420.1	<i>426.7</i>
55°	350.3	357.4	355.1	361.6	<i>368.1</i>
57.5°	308.3	304.8	297.1	308.3	<i>316.6</i>
60°	268.7	259.2	246.2	261.6	<i>274.0</i>
62.5°	233.1	217.8	201.8	217.2	<i>237.9</i>
65°	201.8	185.8	166.3	181.1	<i>203.0</i>
67.5°	178.1	161.5	138.5	153.3	<i>175.2</i>
70°	160.4	143.2	119.5	132.0	<i>151.5</i>
72.5°	146.2	127.8	107.1	115.4	<i>132.0</i>
75°	132.6	114.2	99.4	101.8	<i>117.2</i>
77.5°	116.6	103.0	91.1	89.9	<i>101.8</i>
80°	97.6	93.5	79.3	77.5	<i>84.0</i>
82.5°	80.5	78.7	65.1	63.3	<i>65.7</i>
85°	58.6	61.0	46.2	45.0	<i>47.3</i>
87.5°	30.8	33.7	24.3	25.4	<i>26.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)