

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: P292372

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292372
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2531.0 lumens
Efficiency: N/A
Efficacy: 136.1 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

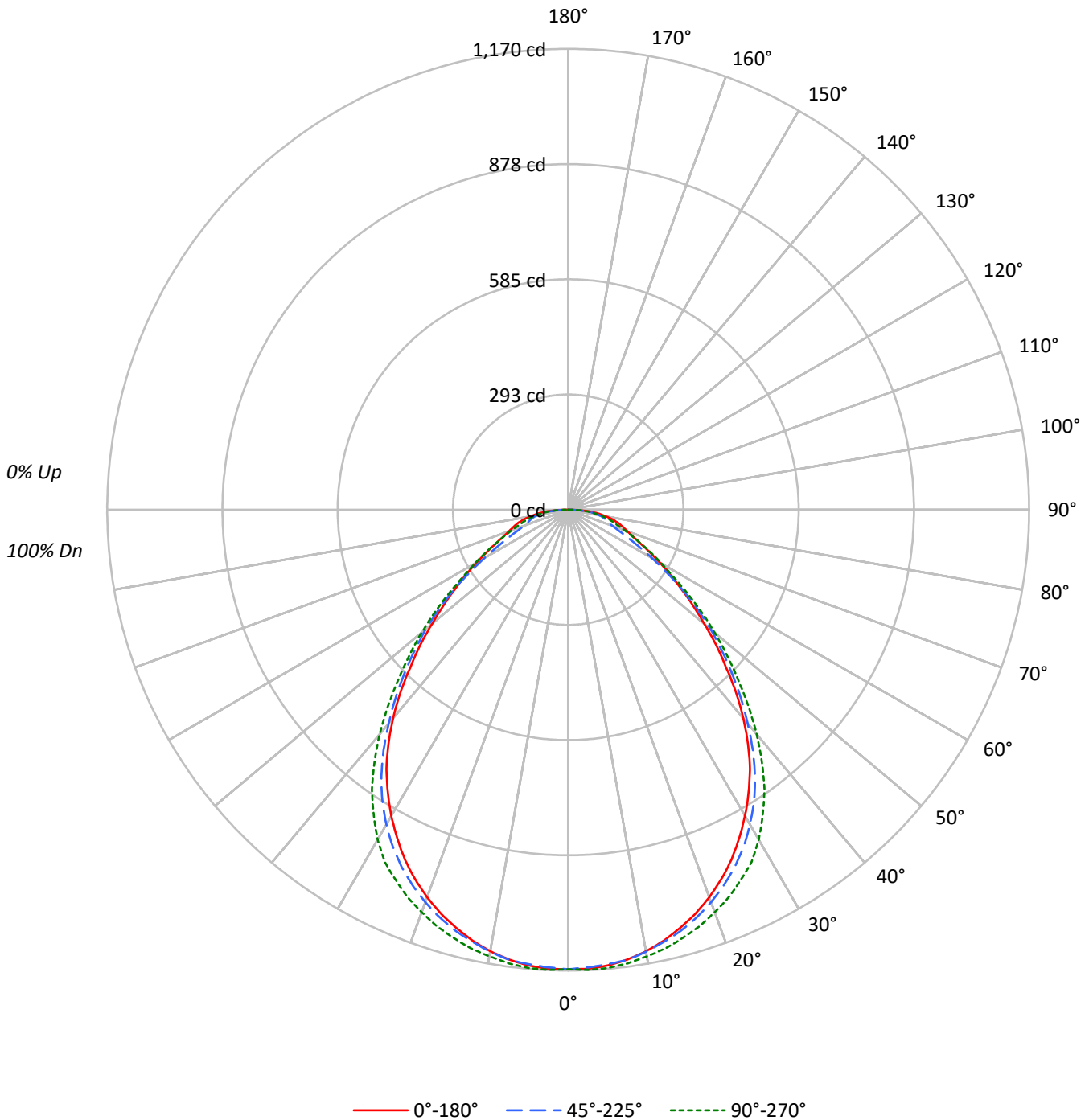
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3140	3140	3140
5°	3137	3129	3155
10°	3110	3114	3146
15°	3061	3083	3135
20°	2998	3037	3115
25°	2910	2970	3078
30°	2789	2868	3005
35°	2642	2716	2854
40°	2429	2490	2614
45°	2158	2237	2318
50°	1885	1971	2031
55°	1639	1661	1722
60°	1442	1321	1470
65°	1281	1056	1289
70°	1258	938	1189
75°	1375	1030	1214
80°	1509	1226	1299
85°	1803	1420	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	4.4
10°-20°	312.7	12.4
20°-30°	461.6	18.2
30°-40°	516.5	20.4
40°-50°	453.6	17.9
50°-60°	321.0	12.7
60°-70°	186.8	7.4
70°-80°	116.4	4.6
80°-90°	52.1	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°	884.6	34.9
0°-40°	1401.1	55.4
0°-60°	2175.7	86.0
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1161	1158	1158	1164	1168	110
15°	1099	1101	1106	1118	1125	310
25°	980	984	1000	1024	1037	450
35°	804	808	827	852	869	500
45°	567	574	588	602	609	439
55°	349	356	354	361	367	316
65°	201	185	166	181	202	204
75°	132	114	99	102	117	138
85°	58	61	46	45	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1166.7	1164.3	1163.1	1167.3	1169.6
5°	1161.4	1158.4	1158.4	1164.3	1167.8
7.5°	1151.9	1149.0	1152.5	1157.8	1161.4
10°	1138.3	1137.2	1139.5	1146.6	1151.3
12.5°	1120.6	1121.2	1123.6	1134.8	1140.7
15°	1098.8	1101.2	1106.5	1118.3	1125.4
17.5°	1075.2	1077.0	1085.2	1098.8	1108.8
20°	1046.9	1050.4	1060.4	1077.6	1087.6
22.5°	1015.6	1019.7	1032.1	1052.8	1065.2
25°	980.2	984.3	1000.3	1023.9	1036.8
27.5°	940.1	946.6	964.3	990.2	1007.9
30°	897.6	902.9	922.9	952.5	967.2
32.5°	852.1	858.6	877.5	905.8	918.8
35°	804.3	807.9	826.8	851.5	868.7
37.5°	750.0	751.8	769.5	792.5	807.9
40°	691.6	692.8	708.7	730.6	744.1
42.5°	630.8	631.4	648.5	665.1	676.9
45°	567.1	573.6	587.8	601.9	609.0
47.5°	509.9	514.6	527.6	540.0	546.5
50°	450.3	462.1	470.9	477.4	485.1
52.5°	398.9	409.0	411.3	419.0	425.5
55°	349.4	356.4	354.1	360.6	367.1
57.5°	307.5	303.9	296.2	307.5	315.7
60°	267.9	258.5	245.5	260.8	273.2
62.5°	232.5	217.2	201.2	216.6	237.2
65°	201.2	185.3	165.8	180.6	202.4
67.5°	177.6	161.1	138.1	152.8	174.7
70°	159.9	142.8	119.2	131.6	151.1
72.5°	145.8	127.5	106.8	115.1	131.6
75°	132.2	113.9	99.1	101.5	116.8
77.5°	116.3	102.7	90.9	89.7	101.5
80°	97.4	93.2	79.1	77.3	83.8
82.5°	80.3	78.5	64.9	63.1	65.5
85°	58.4	60.8	46.0	44.8	47.2
87.5°	30.7	33.6	24.2	25.4	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)