

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: P292482

Luminaire Tested: **22GR-LD5-32-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292482
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-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2613.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

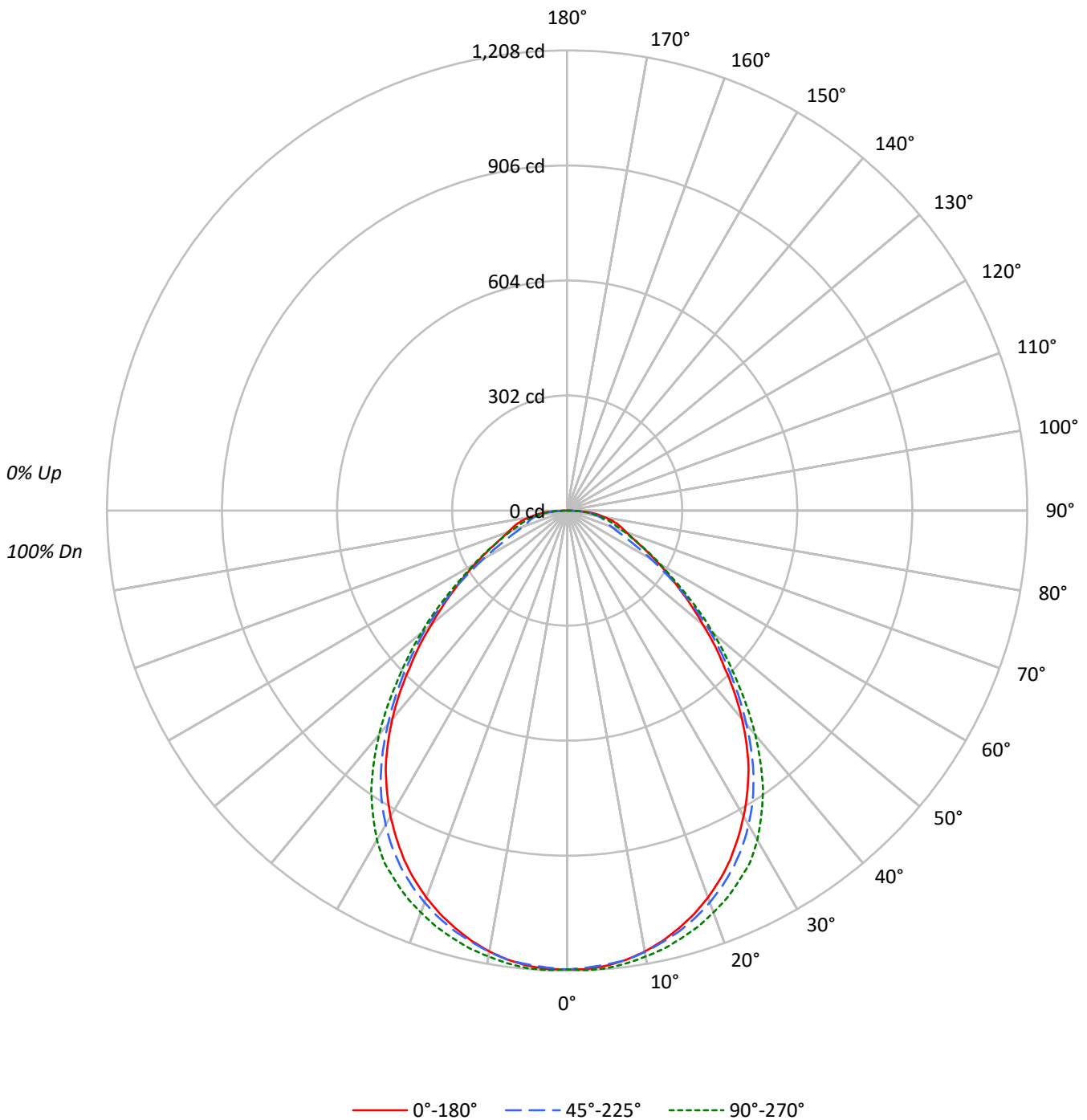
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3241	3241	3241
5°	3239	3230	3257
10°	3211	3215	3248
15°	3160	3182	3237
20°	3095	3135	3215
25°	3004	3066	3178
30°	2880	2961	3103
35°	2728	2804	2946
40°	2508	2570	2699
45°	2228	2309	2393
50°	1946	2035	2097
55°	1692	1715	1778
60°	1489	1364	1518
65°	1323	1090	1331
70°	1299	969	1227
75°	1419	1065	1254
80°	1557	1265	1340
85°	1862	1467	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	4.4
10°-20°	322.8	12.4
20°-30°	476.6	18.2
30°-40°	533.3	20.4
40°-50°	468.3	17.9
50°-60°	331.4	12.7
60°-70°	192.9	7.4
70°-80°	120.2	4.6
80°-90°	53.8	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°	913.2	34.9
0°-40°	1446.5	55.4
0°-60°	2246.1	86.0
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1199	1196	1196	1202	1206	114
15°	1134	1137	1142	1154	1162	320
25°	1012	1016	1033	1057	1070	465
35°	830	834	854	879	897	516
45°	586	592	607	621	629	453
55°	361	368	366	372	379	326
65°	208	191	171	186	209	211
75°	136	118	102	105	121	143
85°	60	63	48	46	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1204.5	1202.0	1200.8	1205.1	1207.5
5°	1199.0	1195.9	1195.9	1202.0	1205.7
7.5°	1189.2	1186.2	1189.8	1195.3	1199.0
10°	1175.2	1174.0	1176.4	1183.7	1188.6
12.5°	1156.9	1157.6	1160.0	1171.6	1177.7
15°	1134.4	1136.8	1142.3	1154.5	1161.8
17.5°	1110.0	1111.9	1120.4	1134.4	1144.8
20°	1080.8	1084.4	1094.8	1112.5	1122.8
22.5°	1048.5	1052.8	1065.6	1086.9	1099.7
25°	1011.9	1016.2	1032.7	1057.0	1070.4
27.5°	970.5	977.2	995.5	1022.3	1040.6
30°	926.7	932.1	952.8	983.3	998.5
32.5°	879.7	886.4	905.9	935.2	948.6
35°	830.4	834.0	853.5	879.1	896.8
37.5°	774.3	776.2	794.4	818.2	834.0
40°	714.0	715.2	731.7	754.2	768.2
42.5°	651.3	651.9	669.6	686.6	698.8
45°	585.5	592.2	606.8	621.4	628.7
47.5°	526.4	531.3	544.7	557.5	564.2
50°	464.8	477.0	486.2	492.9	500.8
52.5°	411.8	422.2	424.6	432.6	439.3
55°	360.7	368.0	365.5	372.2	378.9
57.5°	317.4	313.8	305.8	317.4	325.9
60°	276.6	266.8	253.4	269.3	282.1
62.5°	240.0	224.2	207.8	223.6	244.9
65°	207.8	191.3	171.2	186.4	209.0
67.5°	183.4	166.3	142.6	157.8	180.3
70°	165.1	147.4	123.1	135.9	156.0
72.5°	150.5	131.6	110.3	118.8	135.9
75°	136.5	117.6	102.4	104.8	120.6
77.5°	120.0	106.0	93.8	92.6	104.8
80°	100.5	96.3	81.6	79.8	86.5
82.5°	82.9	81.0	67.0	65.2	67.6
85°	60.3	62.8	47.5	46.3	48.7
87.5°	31.7	34.7	25.0	26.2	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)