

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: P292481

Luminaire Tested: **22GR-LD5-32-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292481
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2513.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

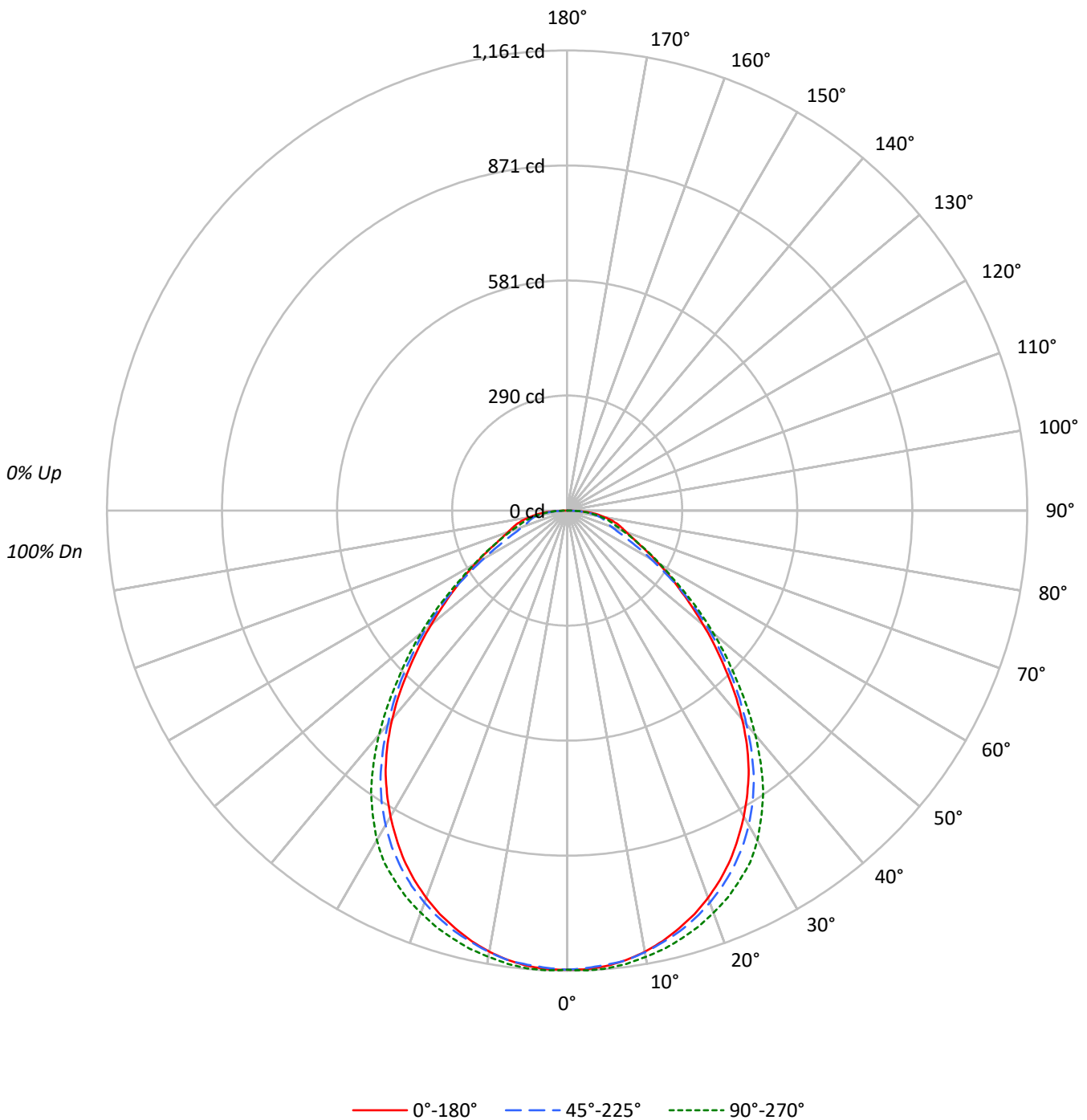
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3117	3117	3117
5°	3115	3107	3132
10°	3088	3092	3124
15°	3039	3061	3113
20°	2977	3015	3092
25°	2890	2949	3057
30°	2769	2848	2984
35°	2623	2697	2833
40°	2412	2472	2595
45°	2143	2221	2301
50°	1872	1958	2016
55°	1628	1650	1710
60°	1432	1312	1460
65°	1272	1048	1280
70°	1249	932	1180
75°	1364	1023	1206
80°	1499	1216	1289
85°	1791	1411	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	4.4
10°-20°	310.5	12.4
20°-30°	458.3	18.2
30°-40°	512.9	20.4
40°-50°	450.4	17.9
50°-60°	318.7	12.7
60°-70°	185.5	7.4
70°-80°	115.6	4.6
80°-90°	51.7	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°	878.3	34.9
0°-40°	1391.1	55.4
0°-60°	2160.2	86.0
0°-90°	2513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1153	1150	1150	1156	1160	109
15°	1091	1093	1099	1110	1117	307
25°	973	977	993	1017	1030	447
35°	799	802	821	846	862	497
45°	563	570	584	598	605	436
55°	347	354	352	358	364	314
65°	200	184	165	179	201	203
75°	131	113	98	101	116	137
85°	58	60	46	44	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.4	1158.4	1158.4	1158.4	1158.4
2.5°	1158.4	1156.0	1154.9	1159.0	1161.3
5°	1153.1	1150.2	1150.2	1156.0	1159.5
7.5°	1143.7	1140.8	1144.3	1149.6	1153.1
10°	1130.2	1129.1	1131.4	1138.4	1143.1
12.5°	1112.7	1113.3	1115.6	1126.7	1132.6
15°	1091.0	1093.3	1098.6	1110.3	1117.4
17.5°	1067.6	1069.3	1077.5	1091.0	1100.9
20°	1039.4	1042.9	1052.9	1069.9	1079.9
22.5°	1008.4	1012.5	1024.8	1045.3	1057.6
25°	973.2	977.3	993.1	1016.6	1029.5
27.5°	933.4	939.8	957.4	983.2	1000.8
30°	891.2	896.5	916.4	945.7	960.3
32.5°	846.1	852.5	871.3	899.4	912.3
35°	798.6	802.1	820.9	845.5	862.5
37.5°	744.7	746.5	764.0	786.9	802.1
40°	686.7	687.9	703.7	725.4	738.8
42.5°	626.4	626.9	643.9	660.3	672.1
45°	563.1	569.5	583.6	597.6	604.7
47.5°	506.2	510.9	523.8	536.1	542.6
50°	447.1	458.8	467.6	474.0	481.6
52.5°	396.1	406.0	408.4	416.0	422.5
55°	346.9	353.9	351.6	358.0	364.4
57.5°	305.3	301.8	294.1	305.3	313.5
60°	266.0	256.6	243.7	259.0	271.3
62.5°	230.9	215.6	199.8	215.0	235.5
65°	199.8	184.0	164.6	179.3	201.0
67.5°	176.4	160.0	137.1	151.8	173.4
70°	158.8	141.8	118.4	130.7	150.0
72.5°	144.7	126.6	106.1	114.3	130.7
75°	131.2	113.1	98.4	100.8	116.0
77.5°	115.4	102.0	90.2	89.1	100.8
80°	96.7	92.6	78.5	76.8	83.2
82.5°	79.7	77.9	64.5	62.7	65.0
85°	58.0	60.4	45.7	44.5	46.9
87.5°	30.5	33.4	24.0	25.2	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)