

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: P292467

Luminaire Tested: **22GR-LD5-24-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292467
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2200.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

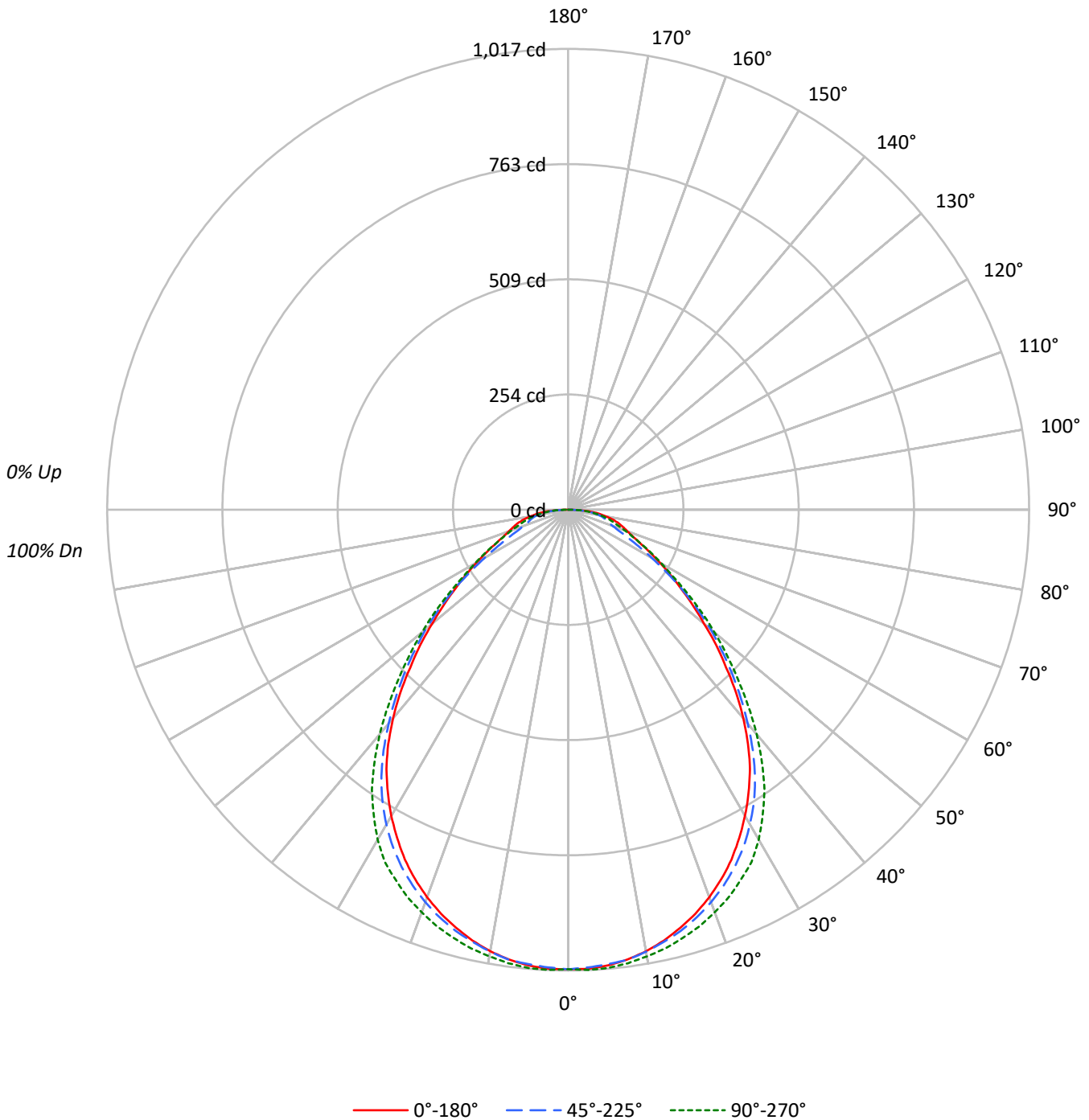
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2729	2729	2729
5°	2727	2720	2742
10°	2704	2707	2735
15°	2661	2679	2725
20°	2606	2640	2707
25°	2530	2581	2676
30°	2424	2493	2612
35°	2297	2361	2481
40°	2112	2164	2272
45°	1876	1944	2015
50°	1639	1714	1765
55°	1425	1444	1497
60°	1253	1149	1278
65°	1114	918	1120
70°	1094	815	1033
75°	1195	896	1056
80°	1311	1065	1128
85°	1568	1235	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	4.4
10°-20°	271.8	12.4
20°-30°	401.2	18.2
30°-40°	449.0	20.4
40°-50°	394.3	17.9
50°-60°	279.0	12.7
60°-70°	162.4	7.4
70°-80°	101.2	4.6
80°-90°	45.3	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°	768.9	34.9
0°-40°	1217.9	55.4
0°-60°	1891.1	86.0
0°-90°	2200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1010	1007	1007	1012	1015	96
15°	955	957	962	972	978	269
25°	852	856	869	890	901	391
35°	699	702	719	740	755	435
45°	493	499	511	523	529	381
55°	304	310	308	313	319	274
65°	175	161	144	157	176	177
75°	115	99	86	88	102	120
85°	51	53	40	39	41	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.1	1014.1	1014.1	1014.1	1014.1
2.5°	1014.1	1012.0	1011.0	1014.6	1016.7
5°	1009.5	1006.9	1006.9	1012.0	1015.1
7.5°	1001.3	998.7	1001.8	1006.4	1009.5
10°	989.5	988.4	990.5	996.7	1000.8
12.5°	974.1	974.6	976.6	986.4	991.5
15°	955.1	957.2	961.8	972.0	978.2
17.5°	934.6	936.1	943.3	955.1	963.8
20°	910.0	913.0	921.8	936.6	945.4
22.5°	882.8	886.4	897.1	915.1	925.9
25°	852.0	855.6	869.4	890.0	901.2
27.5°	817.1	822.8	838.2	860.7	876.1
30°	780.2	784.8	802.2	827.9	840.7
32.5°	740.7	746.3	762.7	787.4	798.7
35°	699.1	702.2	718.6	740.2	755.1
37.5°	652.0	653.5	668.9	688.9	702.2
40°	601.2	602.2	616.0	635.0	646.8
42.5°	548.3	548.9	563.7	578.1	588.3
45°	492.9	498.6	510.9	523.2	529.4
47.5°	443.2	447.3	458.6	469.3	475.0
50°	391.4	401.6	409.3	415.0	421.6
52.5°	346.8	355.5	357.5	364.2	369.8
55°	303.7	309.8	307.8	313.4	319.1
57.5°	267.2	264.2	257.5	267.2	274.4
60°	232.9	224.7	213.4	226.7	237.5
62.5°	202.1	188.8	174.9	188.3	206.2
65°	174.9	161.1	144.1	157.0	175.9
67.5°	154.4	140.0	120.0	132.9	151.8
70°	139.0	124.1	103.6	114.4	131.3
72.5°	126.7	110.8	92.8	100.0	114.4
75°	114.9	99.0	86.2	88.2	101.6
77.5°	101.1	89.3	79.0	78.0	88.2
80°	84.6	81.0	68.7	67.2	72.8
82.5°	69.8	68.2	56.4	54.9	56.9
85°	50.8	52.8	40.0	39.0	41.0
87.5°	26.7	29.2	21.0	22.1	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)