

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: P292472

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292472
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-LD5-28-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: 2275.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

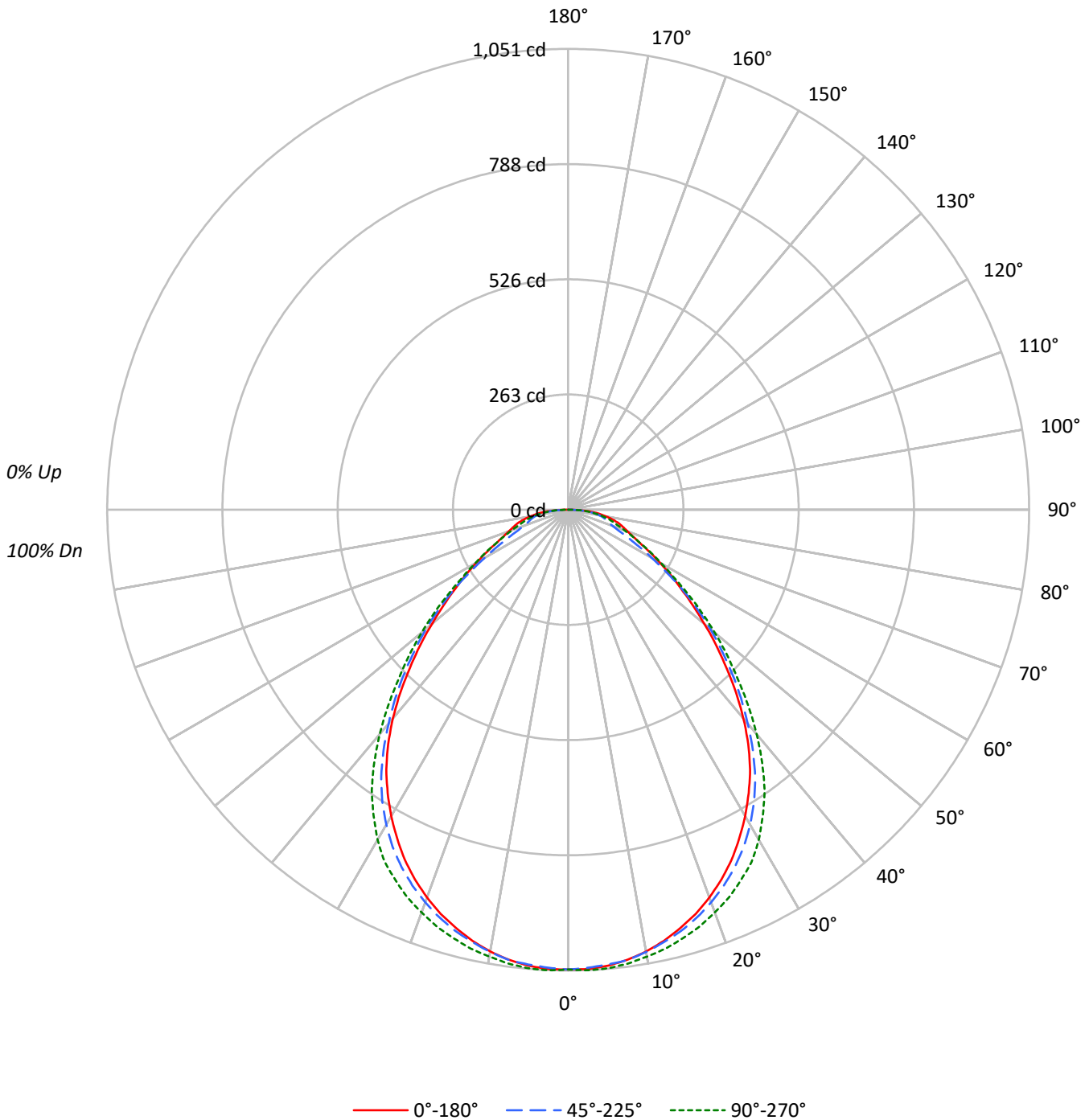
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2822	2822	2822
5°	2820	2813	2836
10°	2796	2799	2828
15°	2752	2771	2818
20°	2695	2730	2800
25°	2616	2670	2767
30°	2507	2578	2701
35°	2375	2441	2565
40°	2184	2238	2350
45°	1940	2011	2083
50°	1694	1772	1825
55°	1473	1493	1548
60°	1296	1188	1322
65°	1152	949	1158
70°	1131	843	1068
75°	1235	926	1092
80°	1356	1102	1167
85°	1621	1278	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	4.4
10°-20°	281.1	12.4
20°-30°	414.9	18.2
30°-40°	464.3	20.4
40°-50°	407.7	17.9
50°-60°	288.5	12.7
60°-70°	167.9	7.4
70°-80°	104.6	4.6
80°-90°	46.8	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°	795.1	34.9
0°-40°	1259.4	55.4
0°-60°	1955.6	86.0
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1044	1041	1041	1046	1050	99
15°	988	990	995	1005	1012	278
25°	881	885	899	920	932	405
35°	723	726	743	765	781	450
45°	510	516	528	541	547	394
55°	314	320	318	324	330	284
65°	181	167	149	162	182	183
75°	119	102	89	91	105	124
85°	52	55	41	40	42	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.7	1048.7	1048.7	1048.7	1048.7
2.5°	1048.7	1046.5	1045.5	1049.2	1051.3
5°	1043.9	1041.2	1041.2	1046.5	1049.7
7.5°	1035.4	1032.7	1035.9	1040.7	1043.9
10°	1023.2	1022.1	1024.3	1030.6	1034.9
12.5°	1007.3	1007.8	1009.9	1020.0	1025.3
15°	987.7	989.8	994.6	1005.2	1011.5
17.5°	966.4	968.0	975.5	987.7	996.7
20°	941.0	944.2	953.2	968.6	977.6
22.5°	912.9	916.6	927.7	946.3	957.4
25°	881.0	884.8	899.1	920.3	932.0
27.5°	845.0	850.8	866.7	890.1	906.0
30°	806.8	811.6	829.6	856.1	869.4
32.5°	765.9	771.8	788.8	814.2	825.9
35°	723.0	726.2	743.1	765.4	780.8
37.5°	674.2	675.8	691.7	712.4	726.2
40°	621.7	622.7	637.0	656.7	668.9
42.5°	567.0	567.6	582.9	597.8	608.4
45°	509.7	515.6	528.3	541.0	547.4
47.5°	458.3	462.5	474.2	485.3	491.2
50°	404.7	415.3	423.3	429.1	436.0
52.5°	358.6	367.6	369.7	376.6	382.4
55°	314.0	320.4	318.3	324.1	329.9
57.5°	276.4	273.2	266.3	276.4	283.8
60°	240.8	232.3	220.7	234.5	245.6
62.5°	209.0	195.2	180.9	194.7	213.2
65°	180.9	166.6	149.1	162.3	181.9
67.5°	159.7	144.8	124.1	137.4	157.0
70°	143.7	128.4	107.1	118.3	135.8
72.5°	131.0	114.6	96.0	103.4	118.3
75°	118.8	102.4	89.1	91.2	105.0
77.5°	104.5	92.3	81.7	80.6	91.2
80°	87.5	83.8	71.1	69.5	75.3
82.5°	72.1	70.5	58.3	56.8	58.9
85°	52.5	54.6	41.4	40.3	42.4
87.5°	27.6	30.2	21.7	22.8	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)