

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: P292038

Luminaire Tested: **22GR-LD5-28-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

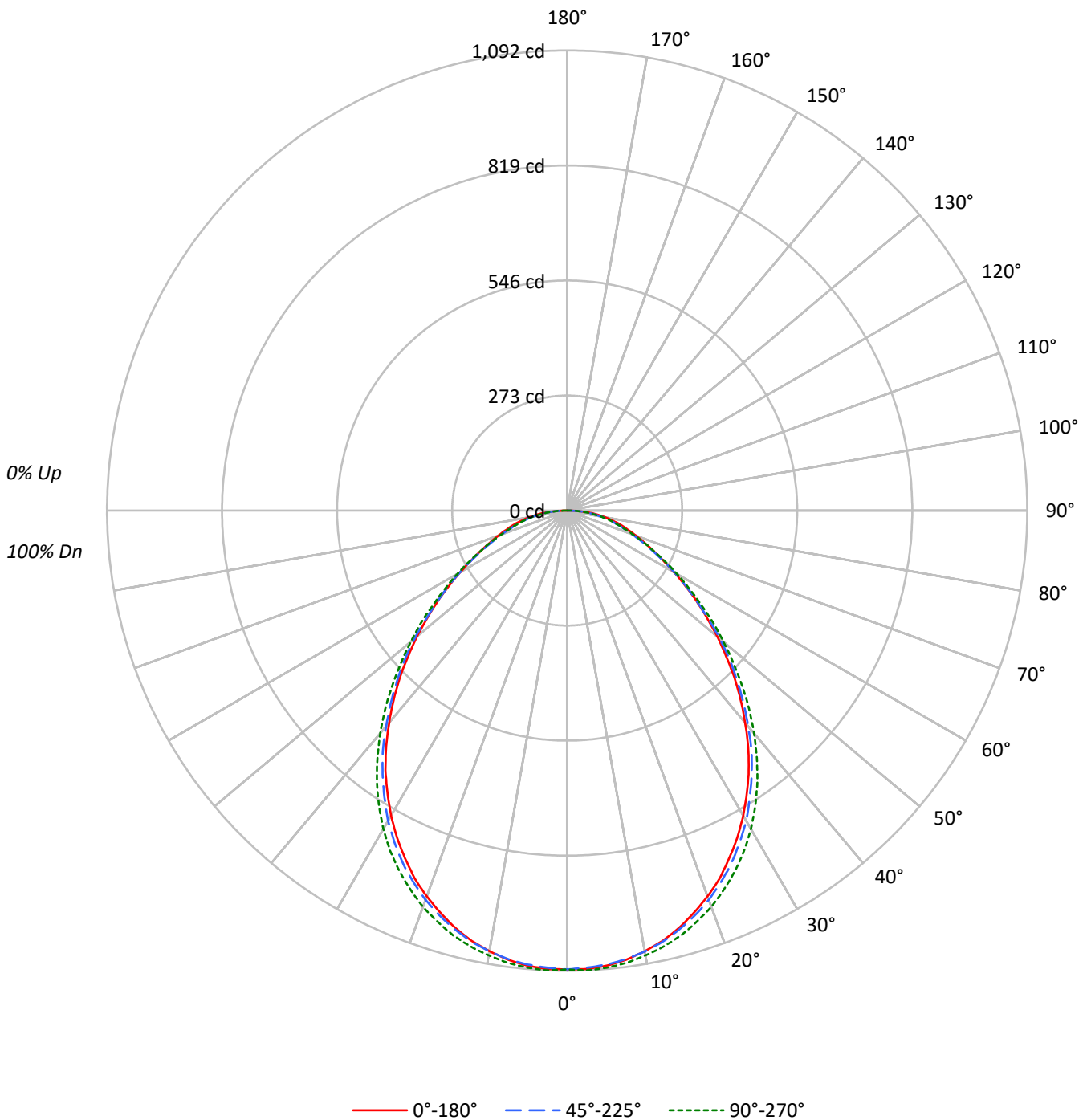
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2930	2930	2930
5°	2928	2921	2941
10°	2901	2903	2929
15°	2857	2866	2908
20°	2790	2814	2866
25°	2703	2741	2800
30°	2596	2641	2711
35°	2469	2508	2586
40°	2309	2347	2424
45°	2137	2170	2234
50°	1947	1978	2028
55°	1757	1763	1814
60°	1576	1582	1620
65°	1436	1407	1440
70°	1367	1290	1313
75°	1377	1245	1251
80°	1427	1257	1249
85°	1562	1334	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	4.1
10°-20°	290.6	11.7
20°-30°	425.3	17.1
30°-40°	478.2	19.3
40°-50°	441.0	17.8
50°-60°	339.9	13.7
60°-70°	224.3	9.0
70°-80°	130.5	5.3
80°-90°	47.5	1.9
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°	818.7	33.0
0°-40°	1296.8	52.3
0°-60°	2077.7	83.8
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1084	1082	1081	1086	1089	103
15°	1025	1025	1029	1038	1044	289
25°	910	915	923	936	943	419
35°	752	755	764	779	787	469
45°	562	562	570	582	587	432
55°	375	374	376	382	387	336
65°	226	224	221	223	226	226
75°	132	127	120	117	120	139
85°	51	50	43	40	41	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1088.7	1086.4	1085.9	1089.9	1092.2
5°	1084.1	1081.8	1081.2	1086.4	1088.7
7.5°	1074.9	1073.2	1073.8	1079.5	1082.4
10°	1061.7	1061.1	1062.3	1068.6	1072.0
12.5°	1046.1	1045.6	1047.9	1054.8	1059.4
15°	1025.4	1025.4	1028.9	1038.1	1043.8
17.5°	1000.7	1002.4	1007.6	1016.8	1023.1
20°	974.2	975.9	982.8	993.2	1000.7
22.5°	944.9	947.2	954.1	966.7	973.1
25°	910.3	914.9	923.0	935.7	943.1
27.5°	874.7	879.8	887.3	902.9	909.8
30°	835.5	839.0	849.9	864.3	872.4
32.5°	794.1	797.6	806.8	824.0	830.9
35°	751.5	755.0	763.6	779.1	787.2
37.5°	705.5	708.4	718.7	730.8	739.4
40°	657.2	661.2	668.1	682.5	690.0
42.5°	610.0	611.7	619.2	633.6	639.3
45°	561.6	562.2	570.3	581.8	586.9
47.5°	511.6	512.7	522.5	529.4	534.6
50°	465.0	465.5	472.4	478.8	484.5
52.5°	418.3	418.3	421.8	428.7	436.2
55°	374.6	374.0	375.8	382.1	386.7
57.5°	333.2	332.6	334.9	338.9	342.4
60°	292.9	291.7	294.0	296.4	301.0
62.5°	257.2	258.4	255.5	258.9	262.4
65°	225.6	224.4	221.0	222.7	226.1
67.5°	198.5	196.8	191.0	192.2	196.2
70°	173.8	170.3	164.0	164.0	166.9
72.5°	151.3	147.9	139.8	140.4	141.6
75°	132.4	126.6	119.7	117.4	120.3
77.5°	111.6	107.0	100.7	99.0	100.1
80°	92.1	88.6	81.1	78.8	80.6
82.5°	73.1	70.2	61.6	59.8	60.4
85°	50.6	50.1	43.2	39.7	40.9
87.5°	27.0	27.6	22.4	20.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)