

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: P292439

Luminaire Tested: **22GR-LD5-36-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292439
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-LD5-36-A125-UNV-L93050-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: 2801.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

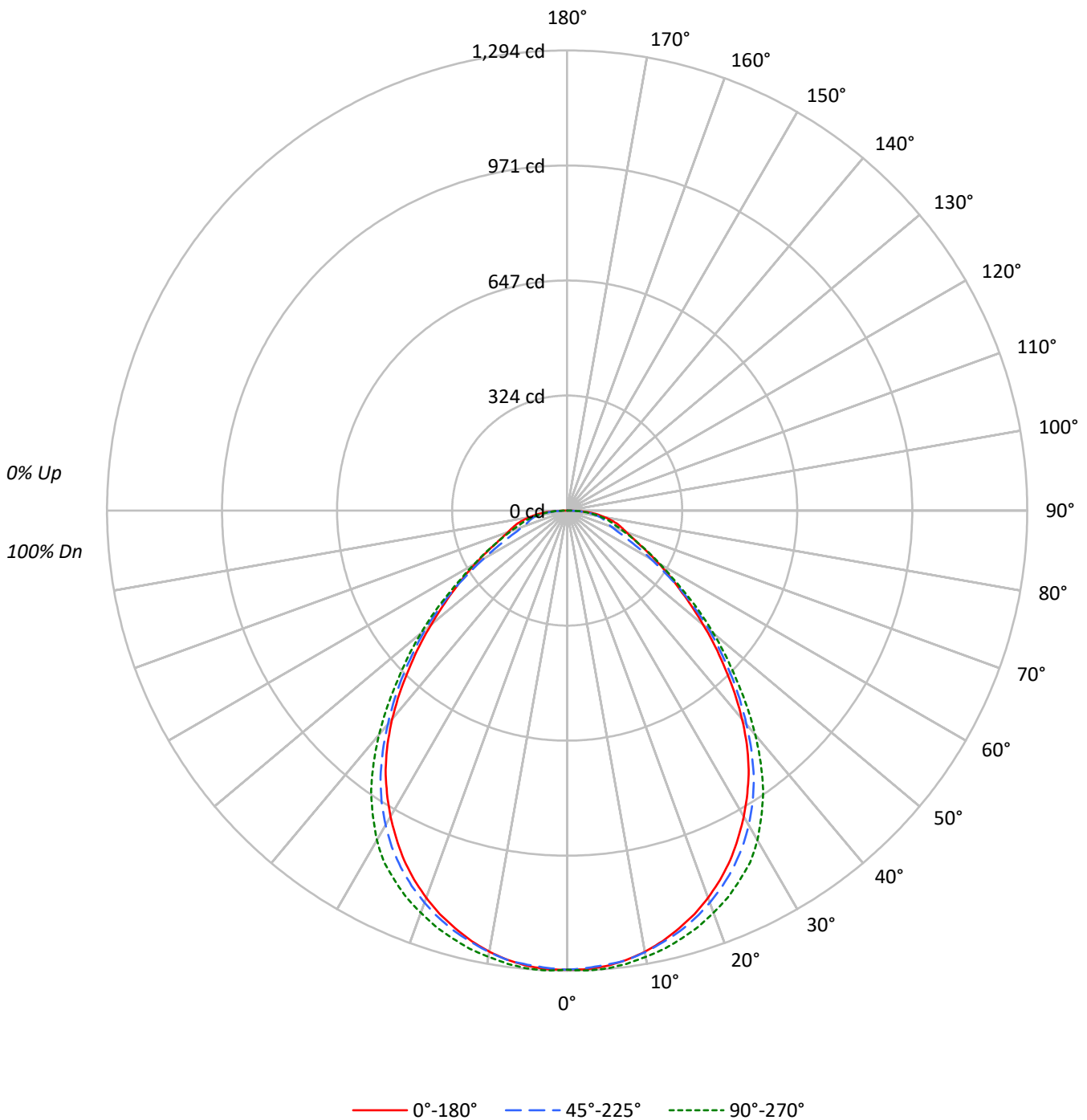
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3474	3474	3474
5°	3472	3463	3491
10°	3442	3446	3481
15°	3388	3411	3470
20°	3318	3361	3447
25°	3221	3287	3407
30°	3086	3174	3326
35°	2924	3006	3158
40°	2689	2755	2893
45°	2388	2476	2565
50°	2086	2182	2247
55°	1814	1838	1906
60°	1596	1462	1628
65°	1418	1168	1426
70°	1393	1038	1316
75°	1521	1141	1344
80°	1671	1356	1437
85°	1998	1572	1612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	4.4
10°-20°	346.0	12.4
20°-30°	510.9	18.2
30°-40°	571.6	20.4
40°-50°	502.0	17.9
50°-60°	355.2	12.7
60°-70°	206.7	7.4
70°-80°	128.8	4.6
80°-90°	57.7	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°	978.9	34.9
0°-40°	1550.6	55.4
0°-60°	2407.8	86.0
0°-90°	2801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1285	1282	1282	1288	1292	122
15°	1216	1219	1224	1238	1245	343
25°	1085	1089	1107	1133	1147	498
35°	890	894	915	942	961	554
45°	628	635	650	666	674	485
55°	387	394	392	399	406	349
65°	223	205	184	200	224	226
75°	146	126	110	112	129	153
85°	65	67	51	50	52	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.1	1291.1	1291.1	1291.1	1291.1
2.5°	1291.1	1288.5	1287.2	1291.8	1294.4
5°	1285.2	1282.0	1282.0	1288.5	1292.4
7.5°	1274.8	1271.5	1275.4	1281.3	1285.2
10°	1259.8	1258.5	1261.1	1268.9	1274.1
12.5°	1240.2	1240.8	1243.4	1255.9	1262.4
15°	1216.0	1218.6	1224.5	1237.6	1245.4
17.5°	1189.9	1191.9	1201.0	1216.0	1227.1
20°	1158.5	1162.5	1173.6	1192.5	1203.6
22.5°	1123.9	1128.5	1142.2	1165.1	1178.8
25°	1084.8	1089.3	1107.0	1133.1	1147.4
27.5°	1040.3	1047.5	1067.1	1095.9	1115.4
30°	993.3	999.2	1021.4	1054.1	1070.4
32.5°	943.0	950.2	971.1	1002.5	1016.8
35°	890.1	894.1	915.0	942.4	961.3
37.5°	830.1	832.0	851.6	877.1	894.1
40°	765.4	766.7	784.3	808.5	823.5
42.5°	698.1	698.8	717.7	736.0	749.1
45°	627.6	634.8	650.5	666.1	674.0
47.5°	564.3	569.5	583.8	597.6	604.7
50°	498.3	511.4	521.2	528.3	536.8
52.5°	441.5	452.6	455.2	463.7	470.9
55°	386.6	394.5	391.8	399.0	406.2
57.5°	340.3	336.3	327.8	340.3	349.4
60°	296.5	286.0	271.7	288.7	302.4
62.5°	257.3	240.3	222.7	239.7	262.5
65°	222.7	205.1	183.5	199.8	224.0
67.5°	196.6	178.3	152.8	169.1	193.3
70°	177.0	158.0	131.9	145.6	167.2
72.5°	161.3	141.1	118.2	127.3	145.6
75°	146.3	126.0	109.7	112.3	129.3
77.5°	128.7	113.6	100.6	99.3	112.3
80°	107.8	103.2	87.5	85.6	92.7
82.5°	88.8	86.9	71.8	69.9	72.5
85°	64.7	67.3	50.9	49.6	52.2
87.5°	34.0	37.2	26.8	28.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)