

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: P292436

Luminaire Tested: **22GR-LD5-32-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292436
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-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

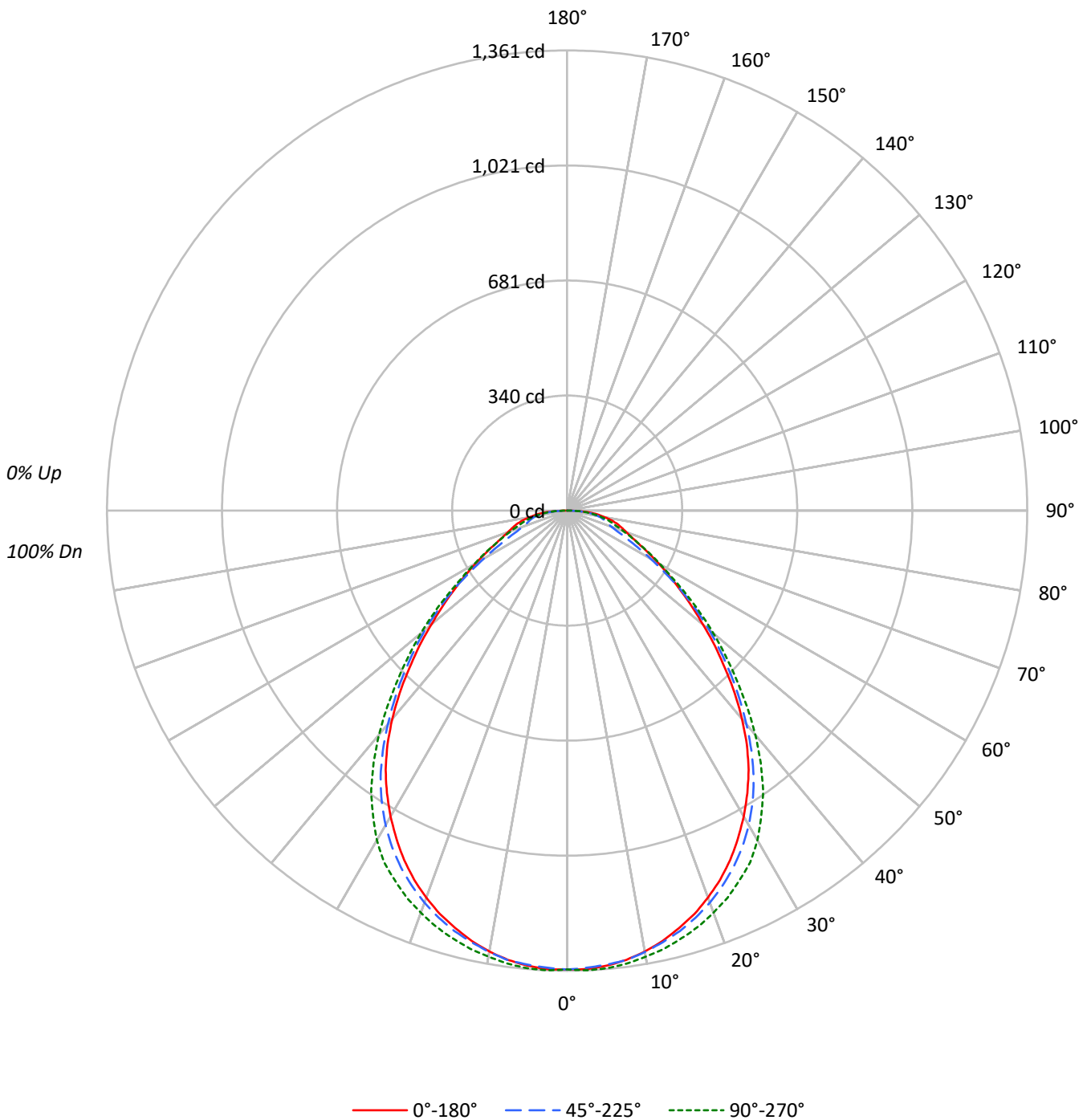
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292436

CATALOG NUMBER: 22GR-LD5-32-A125-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292436

CATALOG NUMBER: 22GR-LD5-32-A125-UNV-L93050-W2A1-U-4000K

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°	3653	3653	3653
5°	3650	3641	3671
10°	3619	3623	3660
15°	3562	3587	3648
20°	3488	3533	3624
25°	3386	3456	3582
30°	3245	3337	3497
35°	3075	3160	3320
40°	2827	2897	3042
45°	2511	2603	2697
50°	2193	2294	2363
55°	1907	1933	2004
60°	1678	1537	1711
65°	1491	1228	1500
70°	1464	1091	1383
75°	1599	1200	1414
80°	1756	1426	1511
85°	2100	1655	1695



TEST NUMBER: P292436

CATALOG NUMBER: 22GR-LD5-32-A125-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	4.4
10°-20°	363.8	12.4
20°-30°	537.1	18.2
30°-40°	601.0	20.4
40°-50°	527.8	17.9
50°-60°	373.5	12.7
60°-70°	217.4	7.4
70°-80°	135.5	4.6
80°-90°	60.6	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°	1029.2	34.9
0°-40°	1630.3	55.4
0°-60°	2531.5	86.0
0°-90°	2945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1351	1348	1348	1355	1359	128
15°	1278	1281	1288	1301	1309	360
25°	1140	1145	1164	1191	1206	524
35°	936	940	962	991	1011	582
45°	660	667	684	700	709	510
55°	406	415	412	420	427	367
65°	234	216	193	210	236	237
75°	154	132	115	118	136	161
85°	68	71	54	52	55	69
90°	0	0	0	0	0	



TEST NUMBER: P292436

CATALOG NUMBER: 22GR-LD5-32-A125-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.5	1357.5	1357.5	1357.5	1357.5
2.5°	1357.5	1354.8	1353.4	1358.2	1360.9
5°	1351.3	1347.9	1347.9	1354.8	1358.9
7.5°	1340.3	1336.9	1341.0	1347.2	1351.3
10°	1324.5	1323.2	1325.9	1334.2	1339.6
12.5°	1303.9	1304.6	1307.4	1320.4	1327.3
15°	1278.5	1281.3	1287.5	1301.2	1309.4
17.5°	1251.1	1253.1	1262.7	1278.5	1290.2
20°	1218.1	1222.2	1233.9	1253.8	1265.5
22.5°	1181.7	1186.5	1200.9	1225.0	1239.4
25°	1140.5	1145.3	1163.9	1191.3	1206.4
27.5°	1093.8	1101.4	1122.0	1152.2	1172.8
30°	1044.4	1050.6	1073.9	1108.2	1125.4
32.5°	991.5	999.1	1021.0	1054.0	1069.1
35°	935.9	940.0	962.0	990.8	1010.7
37.5°	872.7	874.8	895.4	922.2	940.0
40°	804.7	806.1	824.7	850.1	865.9
42.5°	734.0	734.7	754.6	773.8	787.6
45°	659.9	667.4	683.9	700.4	708.6
47.5°	593.3	598.8	613.9	628.3	635.8
50°	523.9	537.6	547.9	555.5	564.4
52.5°	464.2	475.8	478.6	487.5	495.1
55°	406.5	414.7	412.0	419.5	427.1
57.5°	357.7	353.6	344.7	357.7	367.4
60°	311.7	300.8	285.6	303.5	317.9
62.5°	270.5	252.7	234.1	252.0	276.0
65°	234.1	215.6	192.9	210.1	235.5
67.5°	206.7	187.5	160.7	177.8	203.2
70°	186.1	166.2	138.7	153.1	175.8
72.5°	169.6	148.3	124.3	133.9	153.1
75°	153.8	132.5	115.4	118.1	136.0
77.5°	135.3	119.5	105.7	104.4	118.1
80°	113.3	108.5	92.0	90.0	97.5
82.5°	93.4	91.3	75.5	73.5	76.2
85°	68.0	70.7	53.6	52.2	54.9
87.5°	35.7	39.1	28.2	29.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)