

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: P292291

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3016.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

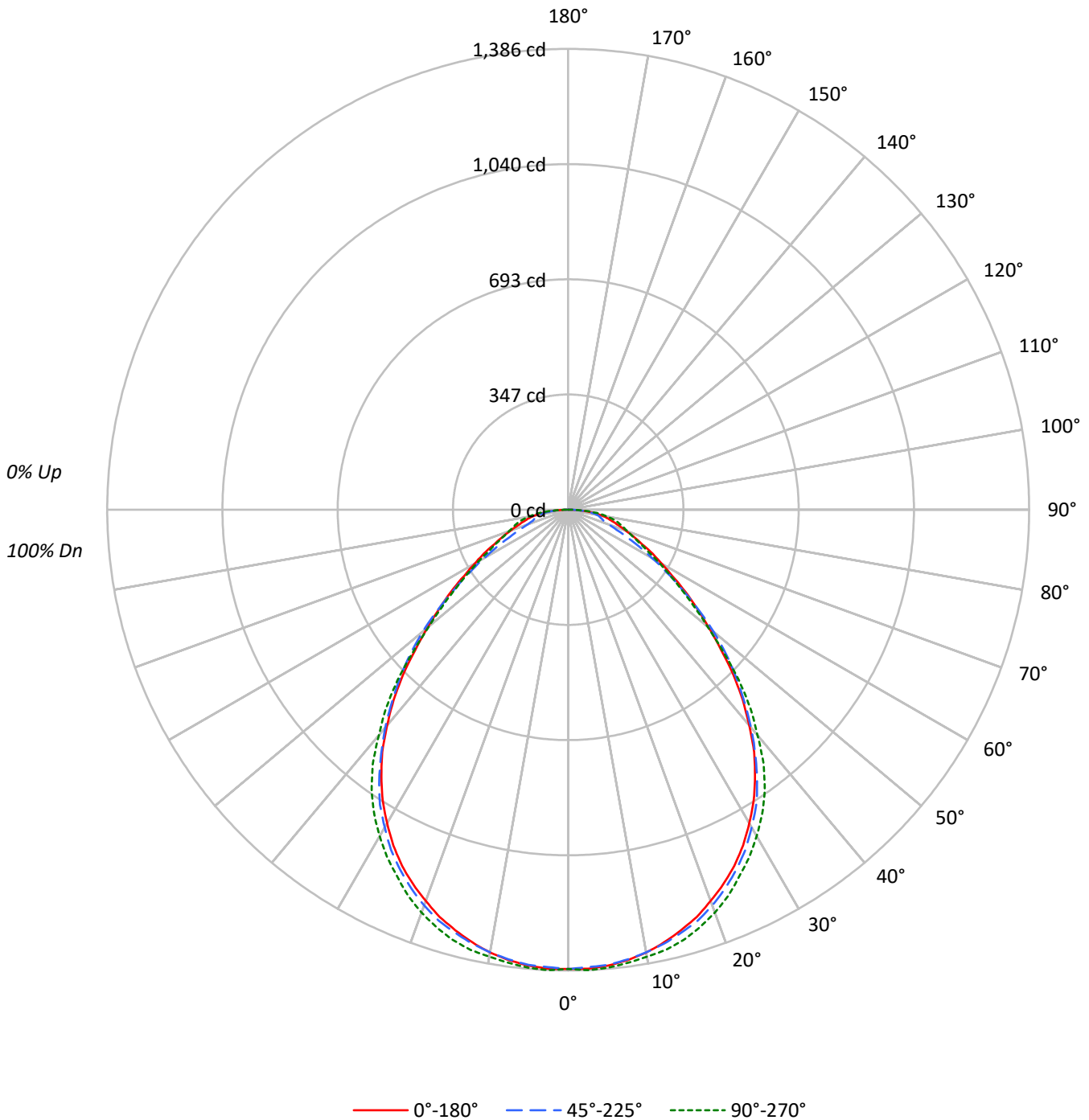
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	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	53	46	42	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	35	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	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3717	3717	3717
5°	3718	3712	3735
10°	3695	3694	3730
15°	3648	3668	3733
20°	3586	3628	3692
25°	3509	3549	3613
30°	3383	3428	3522
35°	3216	3253	3385
40°	2973	3005	3111
45°	2671	2719	2762
50°	2309	2392	2286
55°	2015	1962	1936
60°	1745	1572	1677
65°	1559	1233	1506
70°	1447	1021	1485
75°	1445	1080	1649
80°	1599	1359	1860
85°	1667	1473	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	4.3
10°-20°	372.3	12.3
20°-30°	550.6	18.3
30°-40°	621.3	20.6
40°-50°	547.7	18.2
50°-60°	375.7	12.5
60°-70°	221.7	7.4
70°-80°	138.4	4.6
80°-90°	57.7	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°	1053.5	34.9
0°-40°	1674.8	55.5
0°-60°	2598.3	86.1
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1376	1374	1374	1379	1383	131
15°	1310	1311	1317	1333	1340	369
25°	1182	1186	1195	1211	1217	543
35°	979	988	990	1014	1030	610
45°	702	705	714	719	726	539
55°	430	419	418	404	413	385
65°	245	216	194	224	236	247
75°	139	125	104	145	159	149
85°	54	50	48	62	68	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1381.9	1378.4	1377.0	1382.6	1386.1
5°	1376.3	1373.5	1374.2	1379.1	1382.6
7.5°	1366.5	1364.4	1364.4	1371.4	1374.9
10°	1352.4	1351.7	1351.7	1360.2	1365.1
12.5°	1332.8	1333.5	1336.3	1347.5	1356.0
15°	1309.6	1311.0	1316.6	1332.8	1339.8
17.5°	1284.4	1284.4	1295.6	1308.2	1316.6
20°	1252.1	1254.2	1266.8	1280.9	1289.3
22.5°	1219.1	1222.6	1233.1	1249.3	1257.0
25°	1181.9	1186.1	1195.2	1210.7	1217.0
27.5°	1138.4	1144.0	1153.8	1165.1	1178.4
30°	1088.6	1097.0	1103.3	1118.7	1133.5
32.5°	1038.0	1045.7	1052.8	1068.9	1085.7
35°	979.1	987.5	990.3	1014.2	1030.3
37.5°	918.7	922.2	923.6	947.5	965.0
40°	846.4	853.4	855.5	874.5	885.7
42.5°	776.9	779.7	784.0	798.0	811.3
45°	701.8	705.3	714.5	718.7	725.7
47.5°	623.2	633.8	644.3	631.0	631.7
50°	551.6	560.1	571.3	546.0	546.0
52.5°	487.8	492.0	492.7	471.6	475.8
55°	429.5	419.0	418.3	404.3	412.7
57.5°	371.3	357.2	352.3	348.1	357.9
60°	324.2	299.0	292.0	298.3	311.6
62.5°	285.6	253.4	240.0	256.2	268.1
65°	244.9	215.5	193.7	223.9	236.5
67.5°	213.4	185.3	157.2	200.0	209.1
70°	183.9	162.1	129.8	181.8	188.8
72.5°	160.0	143.2	112.3	164.2	172.7
75°	139.0	124.9	103.9	145.3	158.6
77.5°	122.1	106.7	96.9	125.6	141.8
80°	103.2	87.7	87.7	105.3	120.0
82.5°	81.4	68.8	70.9	85.6	96.2
85°	54.0	50.5	47.7	62.5	68.1
87.5°	27.4	28.1	25.3	32.3	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)