

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: P292052

Luminaire Tested: **22GR-LD5-40-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292052
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-LD5-40-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

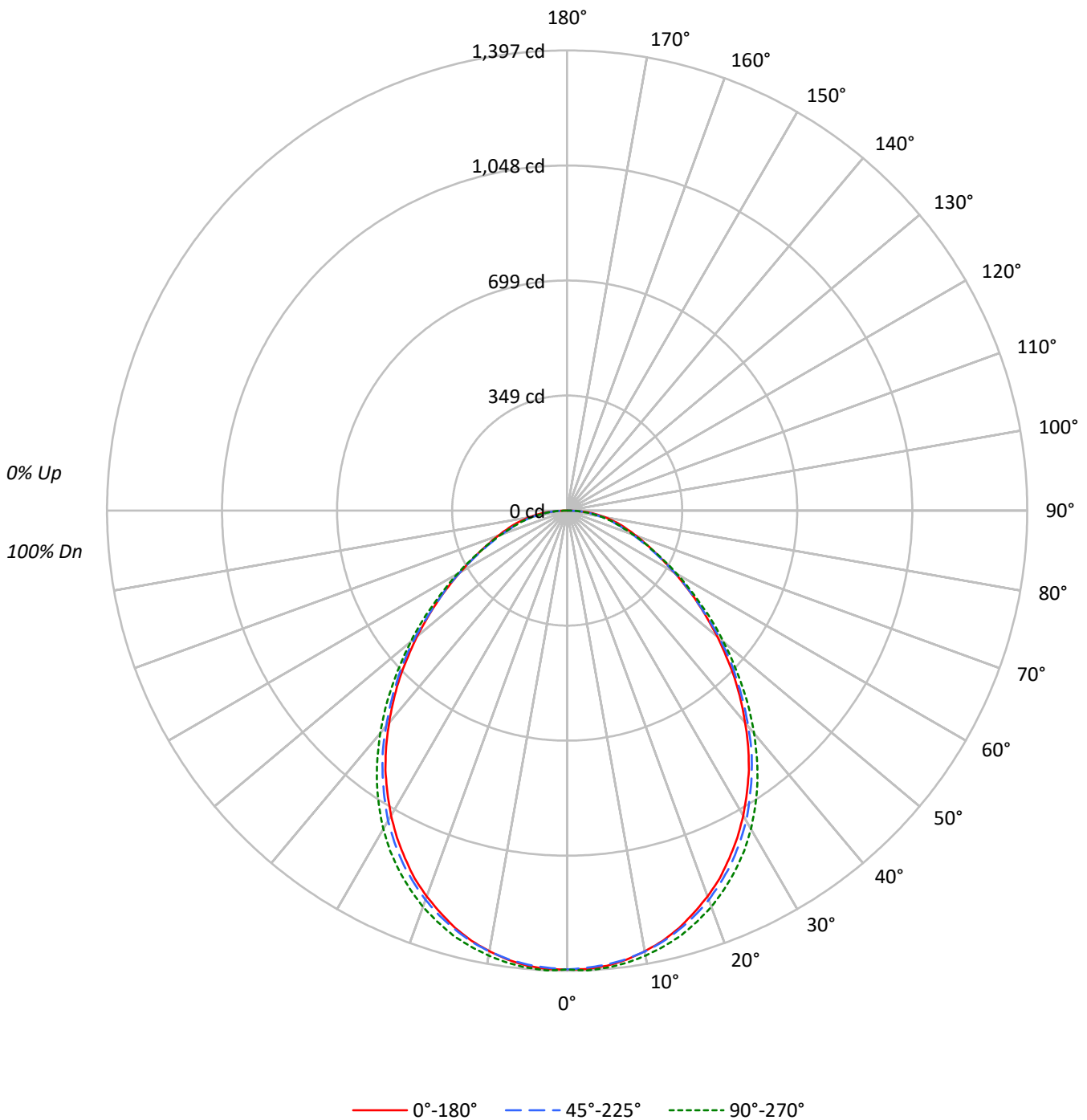
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292052

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P292052

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3749	3749	3749
5°	3747	3737	3763
10°	3712	3714	3748
15°	3655	3667	3721
20°	3569	3601	3666
25°	3458	3506	3583
30°	3322	3379	3468
35°	3159	3210	3309
40°	2954	3003	3101
45°	2735	2777	2858
50°	2491	2531	2595
55°	2249	2256	2321
60°	2017	2025	2073
65°	1838	1800	1842
70°	1749	1651	1680
75°	1760	1592	1600
80°	1826	1609	1598
85°	2001	1704	1615



TEST NUMBER: P292052

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	4.1
10°-20°	371.8	11.7
20°-30°	544.1	17.1
30°-40°	611.8	19.3
40°-50°	564.2	17.8
50°-60°	434.8	13.7
60°-70°	286.9	9.0
70°-80°	167.0	5.3
80°-90°	60.8	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°	1047.5	33.0
0°-40°	1659.2	52.3
0°-60°	2658.2	83.8
0°-90°	3173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1387	1384	1383	1390	1393	131
15°	1312	1312	1316	1328	1336	369
25°	1165	1171	1181	1197	1207	536
35°	962	966	977	997	1007	600
45°	719	719	730	744	751	553
55°	479	479	481	489	495	430
65°	289	287	283	285	289	289
75°	169	162	153	150	154	178
85°	65	64	55	51	52	69
90°	0	0	0	0	0	



TEST NUMBER: P292052

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.0	1393.0	1393.0	1393.0	<i>1393.0</i>
2.5°	<i>1393.0</i>	<i>1390.0</i>	<i>1389.3</i>	<i>1394.4</i>	<i>1397.4</i>
5°	1387.1	1384.1	1383.4	1390.0	<i>1393.0</i>
7.5°	1375.3	1373.1	1373.8	1381.2	<i>1384.9</i>
10°	1358.4	1357.6	1359.1	1367.2	<i>1371.6</i>
12.5°	1338.5	1337.7	1340.7	1349.5	<i>1355.4</i>
15°	1312.0	1312.0	1316.4	1328.2	<i>1335.5</i>
17.5°	1280.3	1282.5	1289.2	1300.9	<i>1309.0</i>
20°	1246.4	1248.7	1257.5	1270.7	<i>1280.3</i>
22.5°	1208.9	1211.8	1220.7	1236.9	<i>1245.0</i>
25°	1164.7	1170.6	1180.9	1197.1	<i>1206.7</i>
27.5°	1119.1	1125.7	1135.3	1155.2	<i>1164.0</i>
30°	1069.0	1073.4	1087.4	1105.8	<i>1116.1</i>
32.5°	1016.0	1020.4	1032.2	1054.3	<i>1063.1</i>
35°	961.5	965.9	977.0	996.9	<i>1007.2</i>
37.5°	902.6	906.3	919.6	935.0	<i>946.1</i>
40°	840.8	845.9	854.8	873.2	<i>882.7</i>
42.5°	780.4	782.6	792.2	810.6	<i>818.0</i>
45°	718.6	719.3	729.6	744.3	<i>751.0</i>
47.5°	654.5	656.0	668.5	677.3	<i>684.0</i>
50°	594.9	595.6	604.5	612.5	<i>619.9</i>
52.5°	535.2	535.2	539.7	548.5	<i>558.1</i>
55°	479.3	478.6	480.8	488.9	<i>494.8</i>
57.5°	426.3	425.5	428.5	433.6	<i>438.1</i>
60°	374.7	373.3	376.2	379.2	<i>385.1</i>
62.5°	329.1	330.6	326.9	331.3	<i>335.7</i>
65°	288.6	287.1	282.7	284.9	<i>289.3</i>
67.5°	254.0	251.8	244.4	245.9	<i>251.1</i>
70°	222.3	217.9	209.8	209.8	<i>213.5</i>
72.5°	193.6	189.2	178.9	179.6	<i>181.1</i>
75°	169.3	162.0	153.1	150.2	<i>153.9</i>
77.5°	142.8	136.9	128.8	126.6	<i>128.1</i>
80°	117.8	113.4	103.8	100.9	<i>103.1</i>
82.5°	93.5	89.8	78.8	76.6	<i>77.3</i>
85°	64.8	64.1	55.2	50.8	<i>52.3</i>
87.5°	34.6	35.3	28.7	25.8	<i>27.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)