

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: P294363

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

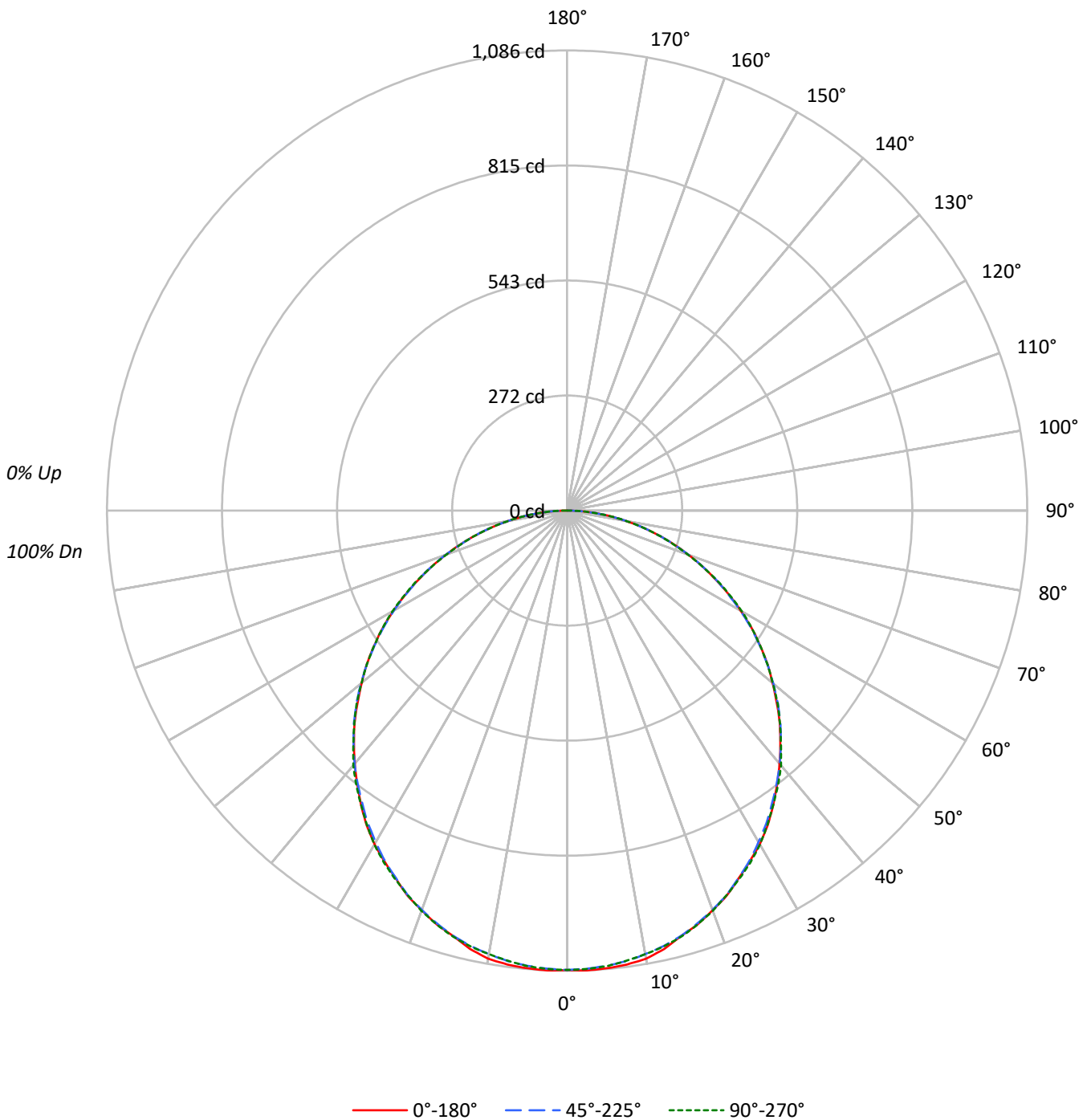
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294363

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P294363

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5000K

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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1459	1459	1459
5°	1464	1456	1457
10°	1467	1452	1452
15°	1448	1447	1450
20°	1437	1436	1439
25°	1422	1421	1425
30°	1413	1404	1414
35°	1393	1385	1393
40°	1370	1371	1379
45°	1350	1354	1352
50°	1325	1329	1326
55°	1304	1301	1304
60°	1274	1270	1282
65°	1234	1239	1244
70°	1194	1200	1192
75°	1153	1153	1153
80°	1089	1089	1099
85°	1005	1016	982



TEST NUMBER: P294363

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	293.1	9.4
20°-30°	441.6	14.2
30°-40°	529.0	17.1
40°-50°	547.5	17.7
50°-60°	496.5	16.0
60°-70°	384.9	12.4
70°-80°	234.1	7.5
80°-90°	72.8	2.3
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°	837.2	27.0
0°-40°	1366.2	44.0
0°-60°	2410.2	77.7
0°-90°	3102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1084	1078	1078	1077	1079	103
15°	1040	1040	1039	1035	1041	294
25°	958	958	957	960	960	442
35°	848	842	844	847	848	530
45°	710	711	712	709	710	547
55°	556	553	554	557	556	497
65°	388	390	389	388	391	385
75°	222	221	222	221	222	234
85°	65	64	66	65	64	73
90°	0	0	0	0	0	



TEST NUMBER: P294363

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.2	1084.2	1084.2	1084.2	1084.2
2.5°	1086.4	1082.0	1082.0	1080.5	1082.7
5°	1084.2	1077.6	1078.3	1076.9	1079.1
7.5°	1080.5	1071.7	1072.5	1071.0	1071.7
10°	1073.9	1063.7	1063.0	1062.2	1063.0
12.5°	1059.3	1053.5	1052.7	1051.3	1053.5
15°	1039.6	1040.3	1038.8	1035.2	1041.0
17.5°	1024.2	1023.5	1022.0	1018.3	1024.2
20°	1003.7	1004.4	1003.0	1001.5	1005.2
22.5°	984.0	981.8	982.5	981.8	982.5
25°	957.6	957.6	956.9	959.8	959.8
27.5°	933.5	930.6	932.0	934.9	936.4
30°	909.3	902.0	903.5	906.4	910.1
32.5°	880.8	873.5	875.0	877.9	879.3
35°	847.9	842.0	843.5	847.2	847.9
37.5°	814.2	810.6	812.0	815.0	817.2
40°	779.9	778.4	780.6	779.9	785.0
42.5°	744.7	744.0	746.2	746.2	746.9
45°	709.6	711.1	711.8	708.9	710.4
47.5°	670.8	671.6	674.5	673.0	673.8
50°	632.8	632.1	635.0	635.7	633.5
52.5°	596.2	592.6	595.5	597.0	595.5
55°	556.0	553.1	554.5	556.7	556.0
57.5°	516.5	513.6	514.3	518.0	516.5
60°	473.3	472.6	471.9	474.8	476.3
62.5°	430.9	430.2	428.7	431.6	433.1
65°	387.7	389.9	389.2	387.7	390.7
67.5°	346.8	349.0	346.8	345.3	345.3
70°	303.6	305.8	305.1	303.6	302.9
72.5°	263.4	263.4	261.9	261.2	261.9
75°	221.7	220.9	221.7	220.9	221.7
77.5°	180.7	181.4	181.4	181.4	180.7
80°	140.5	140.5	140.5	141.2	141.9
82.5°	103.2	101.0	103.2	101.7	102.4
85°	65.1	64.4	65.8	65.1	63.6
87.5°	29.3	30.0	30.0	30.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)