

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: P294307

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294307
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-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3080.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

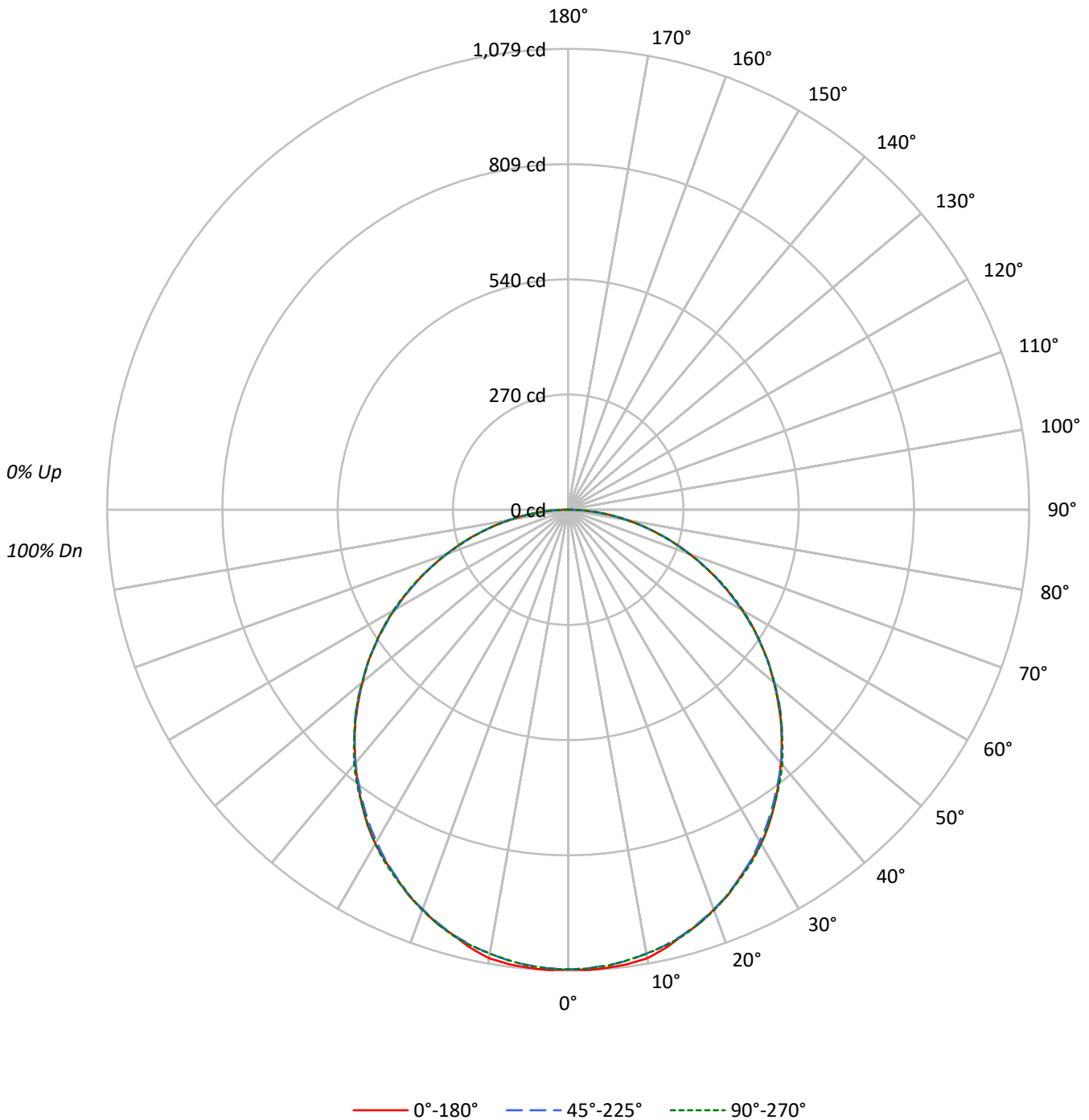
Input Watts (W): 26.049114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294307

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P294307

CATALOG NUMBER: 24GR-LD5-38-FGW080-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	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°	1448	1448	1448
5°	1454	1446	1447
10°	1457	1442	1442
15°	1438	1437	1440
20°	1427	1426	1429
25°	1412	1411	1415
30°	1403	1394	1404
35°	1383	1376	1383
40°	1360	1361	1369
45°	1341	1345	1342
50°	1315	1320	1317
55°	1295	1292	1295
60°	1265	1261	1273
65°	1226	1230	1235
70°	1186	1192	1183
75°	1144	1144	1144
80°	1081	1081	1092
85°	997	1010	976



TEST NUMBER: P294307

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.3
10°-20°	291.0	9.4
20°-30°	438.5	14.2
30°-40°	525.2	17.1
40°-50°	543.7	17.7
50°-60°	492.9	16.0
60°-70°	382.2	12.4
70°-80°	232.4	7.5
80°-90°	72.3	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°	831.3	27.0
0°-40°	1356.5	44.0
0°-60°	2393.1	77.7
0°-90°	3080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1076	1070	1071	1069	1071	102
15°	1032	1033	1032	1028	1034	292
25°	951	951	950	953	953	439
35°	842	836	838	841	842	527
45°	705	706	707	704	705	543
55°	552	549	551	553	552	493
65°	385	387	386	385	388	382
75°	220	219	220	219	220	232
85°	65	64	65	65	63	72
90°	0	0	0	0	0	



TEST NUMBER: P294307

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.5	1076.5	1076.5	1076.5	1076.5
2.5°	1078.7	1074.3	1074.3	1072.9	1075.0
5°	1076.5	1070.0	1070.7	1069.2	1071.4
7.5°	1072.9	1064.1	1064.9	1063.4	1064.1
10°	1066.3	1056.2	1055.4	1054.7	1055.4
12.5°	1051.8	1046.0	1045.3	1043.8	1046.0
15°	1032.2	1032.9	1031.5	1027.8	1033.6
17.5°	1016.9	1016.2	1014.8	1011.1	1016.9
20°	996.6	997.3	995.9	994.4	998.0
22.5°	977.0	974.8	975.5	974.8	975.5
25°	950.8	950.8	950.1	953.0	953.0
27.5°	926.9	924.0	925.4	928.3	929.8
30°	902.9	895.6	897.1	900.0	903.6
32.5°	874.6	867.3	868.8	871.7	873.1
35°	841.9	836.1	837.5	841.1	841.9
37.5°	808.5	804.8	806.3	809.2	811.4
40°	774.3	772.9	775.0	774.3	779.4
42.5°	739.5	738.7	740.9	740.9	741.6
45°	704.6	706.0	706.8	703.9	705.3
47.5°	666.1	666.8	669.7	668.3	669.0
50°	628.3	627.6	630.5	631.2	629.0
52.5°	592.0	588.4	591.3	592.7	591.3
55°	552.0	549.1	550.6	552.8	552.0
57.5°	512.8	509.9	510.6	514.3	512.8
60°	470.0	469.2	468.5	471.4	472.9
62.5°	427.8	427.1	425.7	428.6	430.0
65°	385.0	387.2	386.4	385.0	387.9
67.5°	344.3	346.5	344.3	342.9	342.9
70°	301.4	303.6	302.9	301.4	300.7
72.5°	261.5	261.5	260.0	259.3	260.0
75°	220.1	219.4	220.1	219.4	220.1
77.5°	179.4	180.1	180.1	180.1	179.4
80°	139.5	139.5	139.5	140.2	140.9
82.5°	102.4	100.2	102.4	101.0	101.7
85°	64.6	63.9	65.4	64.6	63.2
87.5°	29.1	29.8	29.8	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)