

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: P294360

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294360
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

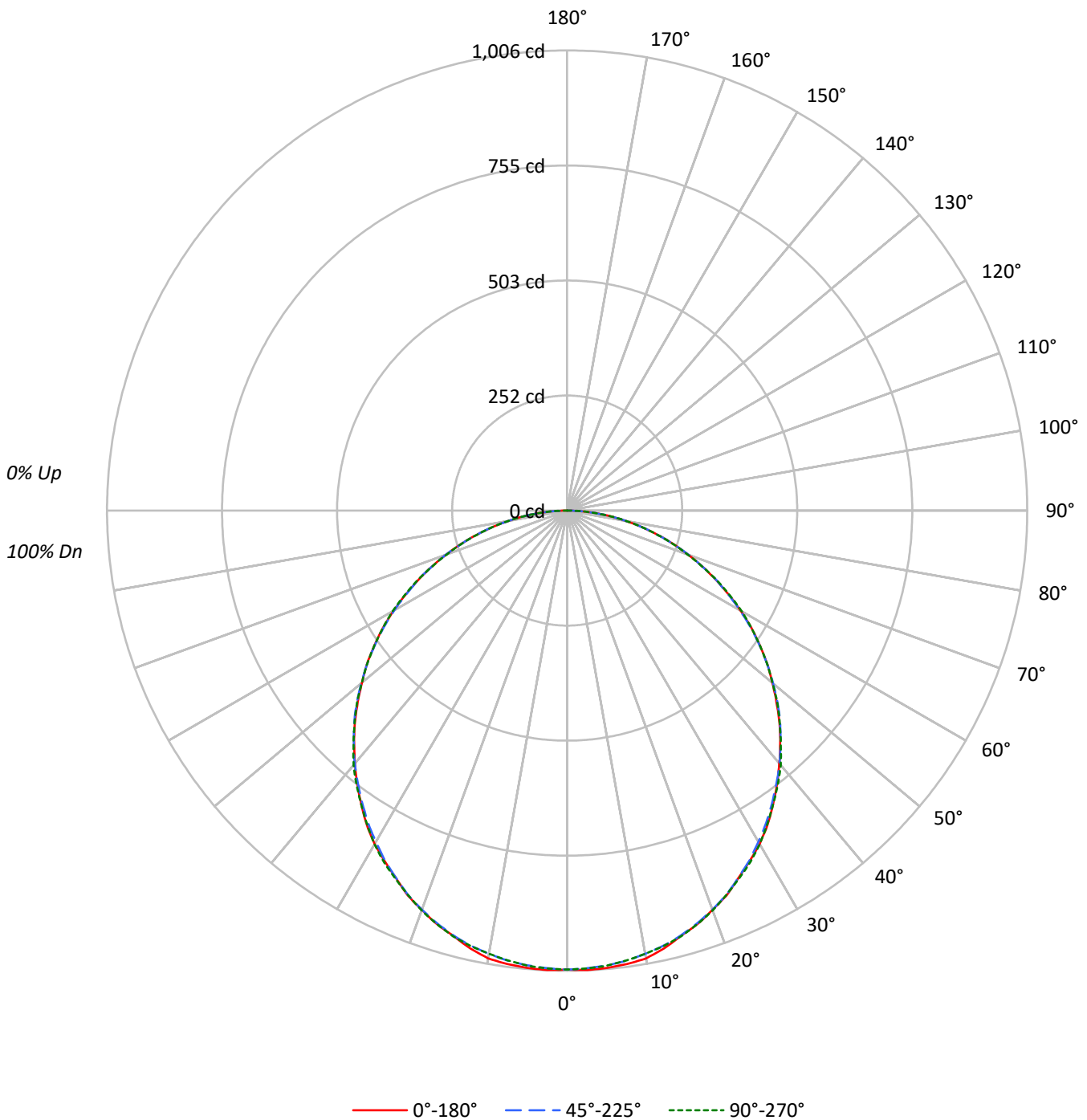
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294360

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P294360

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1350	1350	1350
5°	1355	1348	1349
10°	1358	1344	1344
15°	1340	1339	1342
20°	1330	1329	1332
25°	1316	1315	1319
30°	1308	1299	1309
35°	1289	1282	1289
40°	1268	1269	1276
45°	1250	1254	1251
50°	1226	1230	1227
55°	1207	1204	1207
60°	1179	1175	1186
65°	1143	1147	1151
70°	1105	1111	1103
75°	1067	1067	1067
80°	1007	1007	1018
85°	931	940	909



TEST NUMBER: P294360

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.3
10°-20°	271.2	9.4
20°-30°	408.8	14.2
30°-40°	489.6	17.1
40°-50°	506.8	17.7
50°-60°	459.5	16.0
60°-70°	356.2	12.4
70°-80°	216.7	7.5
80°-90°	67.4	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°	774.9	27.0
0°-40°	1264.4	44.0
0°-60°	2230.7	77.7
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1003	997	998	997	999	95
15°	962	963	962	958	964	272
25°	886	886	886	888	888	409
35°	785	779	781	784	785	491
45°	657	658	659	656	658	506
55°	515	512	513	515	515	460
65°	359	361	360	359	362	356
75°	205	204	205	204	205	217
85°	60	60	61	60	59	67
90°	0	0	0	0	0	



TEST NUMBER: P294360

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.4	1003.4	1003.4	1003.4	1003.4
2.5°	1005.5	1001.4	1001.4	1000.1	1002.1
5°	1003.4	997.4	998.0	996.7	998.7
7.5°	1000.1	991.9	992.6	991.3	991.9
10°	994.0	984.5	983.8	983.1	983.8
12.5°	980.4	975.0	974.3	973.0	975.0
15°	962.1	962.8	961.5	958.1	963.5
17.5°	947.9	947.2	945.9	942.5	947.9
20°	929.0	929.6	928.3	926.9	930.3
22.5°	910.7	908.7	909.3	908.7	909.3
25°	886.3	886.3	885.6	888.3	888.3
27.5°	864.0	861.3	862.6	865.3	866.7
30°	841.6	834.9	836.2	838.9	842.3
32.5°	815.2	808.4	809.8	812.5	813.9
35°	784.7	779.3	780.7	784.1	784.7
37.5°	753.6	750.2	751.6	754.3	756.3
40°	721.8	720.4	722.5	721.8	726.5
42.5°	689.3	688.6	690.6	690.6	691.3
45°	656.8	658.1	658.8	656.1	657.5
47.5°	620.9	621.6	624.3	622.9	623.6
50°	585.7	585.0	587.7	588.4	586.4
52.5°	551.8	548.4	551.2	552.5	551.2
55°	514.6	511.9	513.2	515.3	514.6
57.5°	478.0	475.3	476.0	479.4	478.0
60°	438.1	437.4	436.7	439.4	440.8
62.5°	398.8	398.1	396.8	399.5	400.8
65°	358.9	360.9	360.2	358.9	361.6
67.5°	320.9	323.0	320.9	319.6	319.6
70°	281.0	283.0	282.3	281.0	280.3
72.5°	243.8	243.8	242.4	241.7	242.4
75°	205.2	204.5	205.2	204.5	205.2
77.5°	167.2	167.9	167.9	167.9	167.2
80°	130.0	130.0	130.0	130.7	131.4
82.5°	95.5	93.4	95.5	94.1	94.8
85°	60.3	59.6	60.9	60.3	58.9
87.5°	27.1	27.8	27.8	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)