

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: P294234

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294234
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

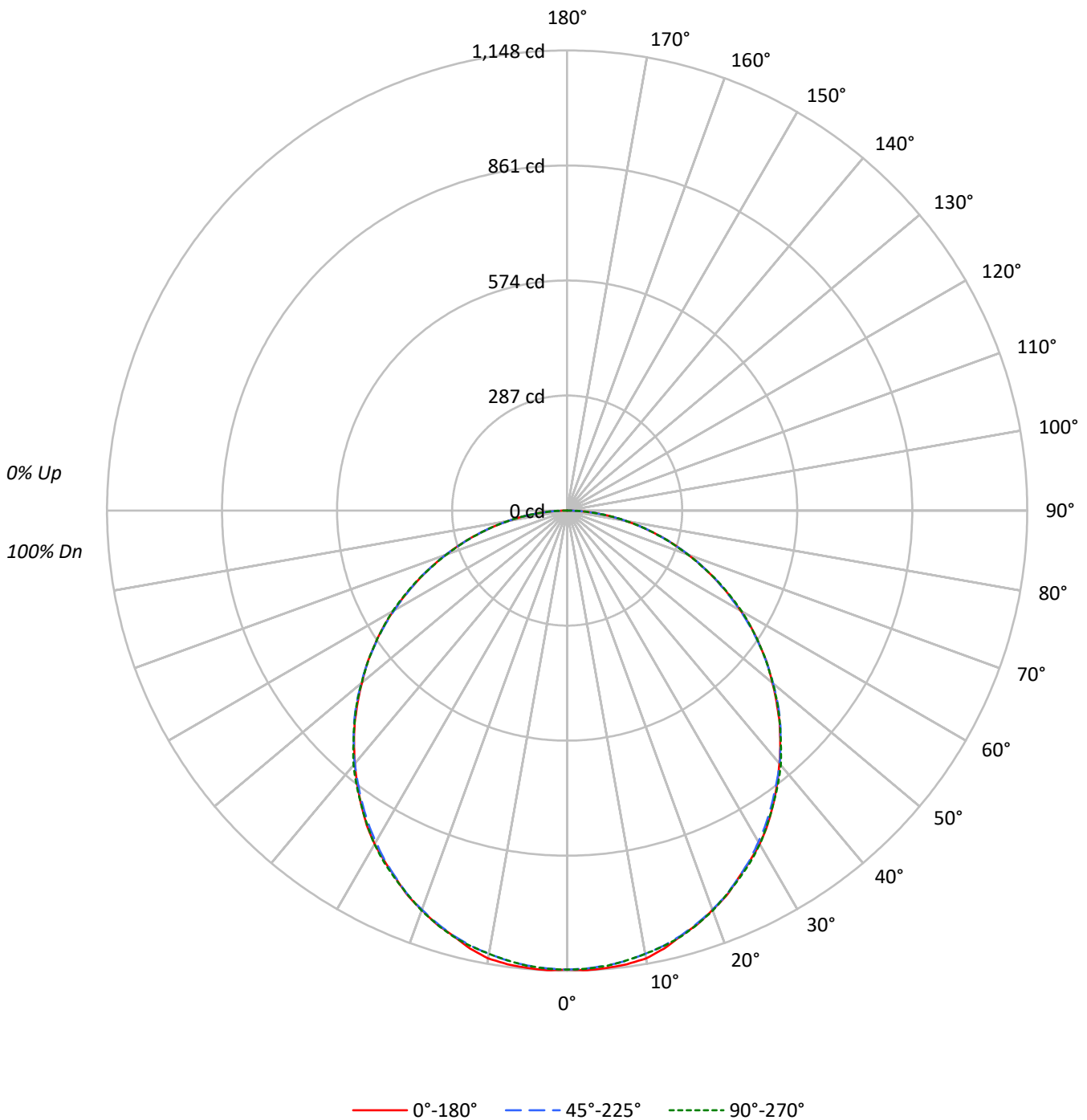
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294234

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P294234

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L82765-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	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°	1541	1541	1541
5°	1547	1539	1540
10°	1550	1534	1534
15°	1530	1529	1532
20°	1518	1517	1520
25°	1502	1501	1505
30°	1492	1483	1494
35°	1471	1464	1471
40°	1447	1448	1457
45°	1427	1431	1428
50°	1399	1404	1401
55°	1378	1374	1378
60°	1345	1341	1354
65°	1304	1309	1314
70°	1262	1268	1259
75°	1218	1218	1218
80°	1150	1150	1161
85°	1062	1074	1037



TEST NUMBER: P294234

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.3
10°-20°	309.6	9.4
20°-30°	466.6	14.2
30°-40°	558.8	17.1
40°-50°	578.4	17.7
50°-60°	524.5	16.0
60°-70°	406.6	12.4
70°-80°	247.3	7.5
80°-90°	76.9	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°	884.5	27.0
0°-40°	1443.3	44.0
0°-60°	2546.2	77.7
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1145	1138	1139	1138	1140	109
15°	1098	1099	1097	1094	1100	311
25°	1012	1012	1011	1014	1014	467
35°	896	890	891	895	896	560
45°	750	751	752	749	750	578
55°	587	584	586	588	587	525
65°	410	412	411	410	413	406
75°	234	233	234	233	234	247
85°	69	68	70	69	67	77
90°	0	0	0	0	0	



TEST NUMBER: P294234

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.3	1145.3	1145.3	1145.3	1145.3
2.5°	1147.7	1143.0	1143.0	1141.5	1143.8
5°	1145.3	1138.4	1139.2	1137.6	1139.9
7.5°	1141.5	1132.2	1133.0	1131.4	1132.2
10°	1134.5	1123.7	1122.9	1122.2	1122.9
12.5°	1119.1	1112.9	1112.1	1110.6	1112.9
15°	1098.2	1099.0	1097.4	1093.6	1099.8
17.5°	1082.0	1081.2	1079.7	1075.8	1082.0
20°	1060.3	1061.1	1059.6	1058.0	1061.9
22.5°	1039.5	1037.2	1037.9	1037.2	1037.9
25°	1011.6	1011.6	1010.9	1014.0	1014.0
27.5°	986.1	983.1	984.6	987.7	989.2
30°	960.6	952.9	954.5	957.5	961.4
32.5°	930.5	922.8	924.3	927.4	929.0
35°	895.7	889.5	891.1	894.9	895.7
37.5°	860.2	856.3	857.9	860.9	863.3
40°	823.8	822.3	824.6	823.8	829.3
42.5°	786.8	786.0	788.3	788.3	789.1
45°	749.7	751.2	752.0	748.9	750.4
47.5°	708.7	709.5	712.6	711.0	711.8
50°	668.5	667.7	670.8	671.6	669.3
52.5°	629.9	626.0	629.1	630.6	629.1
55°	587.4	584.3	585.8	588.1	587.4
57.5°	545.6	542.5	543.3	547.2	545.6
60°	500.0	499.3	498.5	501.6	503.1
62.5°	455.2	454.4	452.9	456.0	457.5
65°	409.6	411.9	411.2	409.6	412.7
67.5°	366.3	368.6	366.3	364.8	364.8
70°	320.7	323.0	322.3	320.7	320.0
72.5°	278.2	278.2	276.7	275.9	276.7
75°	234.2	233.4	234.2	233.4	234.2
77.5°	190.9	191.7	191.7	191.7	190.9
80°	148.4	148.4	148.4	149.2	149.9
82.5°	109.0	106.7	109.0	107.4	108.2
85°	68.8	68.0	69.6	68.8	67.2
87.5°	30.9	31.7	31.7	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)