

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: P294229

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294229
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-LD5-34-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3165.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

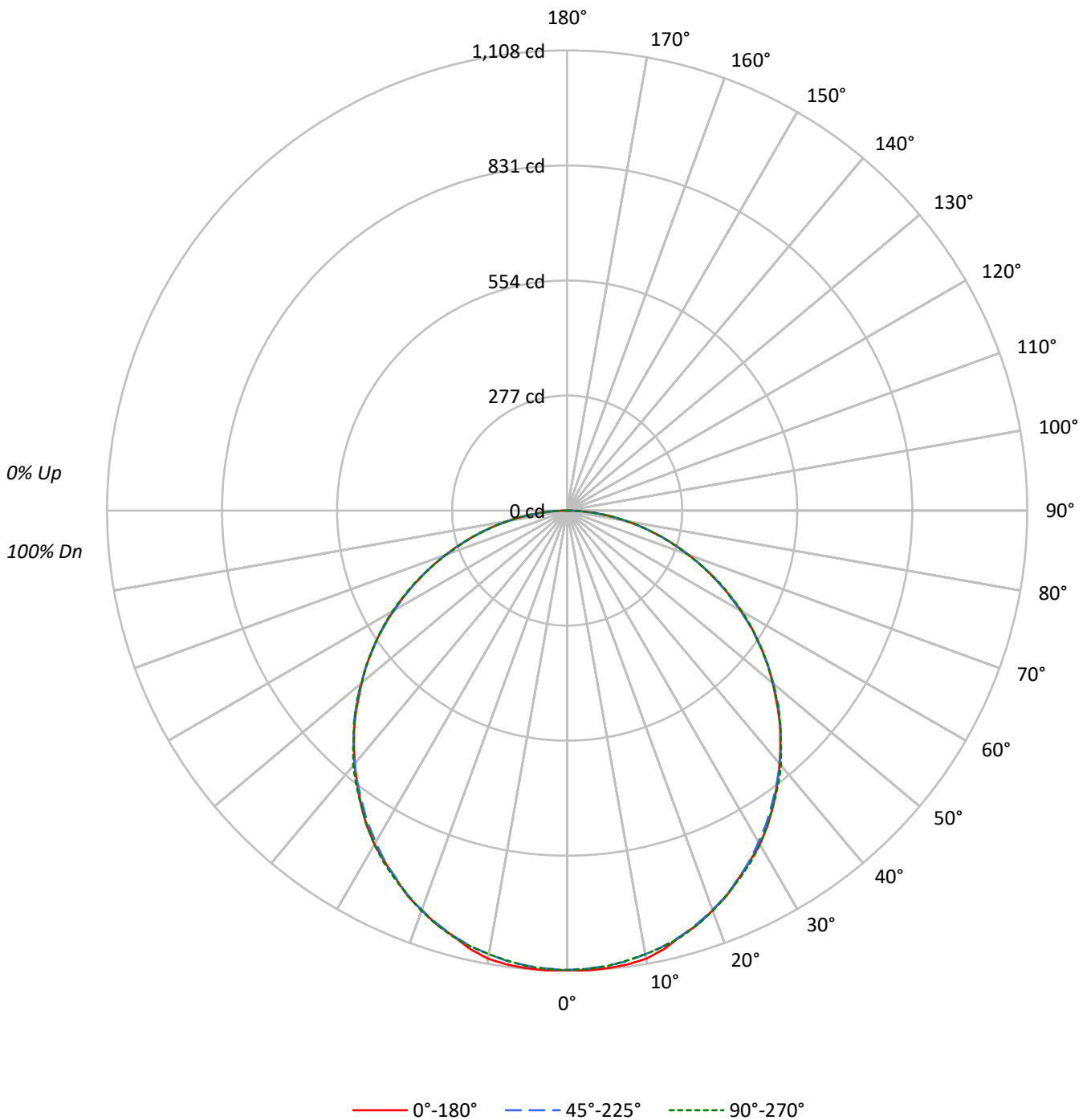
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1488	1488	1488
5°	1494	1486	1487
10°	1497	1482	1482
15°	1478	1476	1480
20°	1466	1465	1468
25°	1451	1449	1454
30°	1441	1432	1443
35°	1421	1414	1421
40°	1398	1399	1407
45°	1378	1382	1379
50°	1352	1356	1353
55°	1331	1327	1331
60°	1299	1295	1308
65°	1259	1264	1269
70°	1219	1225	1216
75°	1176	1176	1176
80°	1110	1110	1122
85°	1025	1037	1002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.3
10°-20°	299.0	9.4
20°-30°	450.6	14.2
30°-40°	539.7	17.1
40°-50°	558.7	17.7
50°-60°	506.5	16.0
60°-70°	392.7	12.4
70°-80°	238.8	7.5
80°-90°	74.3	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°	854.2	27.0
0°-40°	1393.9	44.0
0°-60°	2459.1	77.7
0°-90°	3165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1106	1100	1100	1099	1101	105
15°	1061	1061	1060	1056	1062	300
25°	977	977	976	979	979	451
35°	865	859	861	864	865	541
45°	724	726	726	723	725	558
55°	567	564	566	568	567	507
65°	396	398	397	396	399	392
75°	226	225	226	225	226	239
85°	66	66	67	66	65	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.2	1106.2	1106.2	1106.2	1106.2
2.5°	1108.4	1104.0	1104.0	1102.5	1104.7
5°	1106.2	1099.5	1100.2	1098.7	1101.0
7.5°	1102.5	1093.5	1094.3	1092.8	1093.5
10°	1095.8	1085.3	1084.6	1083.8	1084.6
12.5°	1080.8	1074.9	1074.1	1072.6	1074.9
15°	1060.7	1061.4	1059.9	1056.2	1062.2
17.5°	1045.0	1044.3	1042.8	1039.0	1045.0
20°	1024.1	1024.8	1023.4	1021.9	1025.6
22.5°	1003.9	1001.7	1002.5	1001.7	1002.5
25°	977.1	977.1	976.3	979.3	979.3
27.5°	952.4	949.5	950.9	953.9	955.4
30°	927.8	920.3	921.8	924.8	928.6
32.5°	898.7	891.2	892.7	895.7	897.2
35°	865.1	859.1	860.6	864.4	865.1
37.5°	830.8	827.0	828.5	831.5	833.8
40°	795.7	794.2	796.4	795.7	800.9
42.5°	759.9	759.1	761.4	761.4	762.1
45°	724.0	725.5	726.3	723.3	724.8
47.5°	684.5	685.2	688.2	686.7	687.5
50°	645.7	644.9	647.9	648.6	646.4
52.5°	608.3	604.6	607.6	609.1	607.6
55°	567.3	564.3	565.8	568.0	567.3
57.5°	527.0	524.0	524.7	528.5	527.0
60°	482.9	482.2	481.4	484.4	485.9
62.5°	439.6	438.9	437.4	440.4	441.9
65°	395.6	397.8	397.1	395.6	398.6
67.5°	353.8	356.0	353.8	352.3	352.3
70°	309.8	312.0	311.3	309.8	309.0
72.5°	268.7	268.7	267.2	266.5	267.2
75°	226.2	225.4	226.2	225.4	226.2
77.5°	184.4	185.1	185.1	185.1	184.4
80°	143.3	143.3	143.3	144.1	144.8
82.5°	105.2	103.0	105.2	103.8	104.5
85°	66.4	65.7	67.2	66.4	64.9
87.5°	29.9	30.6	30.6	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)