

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: P294312

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294312
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-LD5-42-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: 3355.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

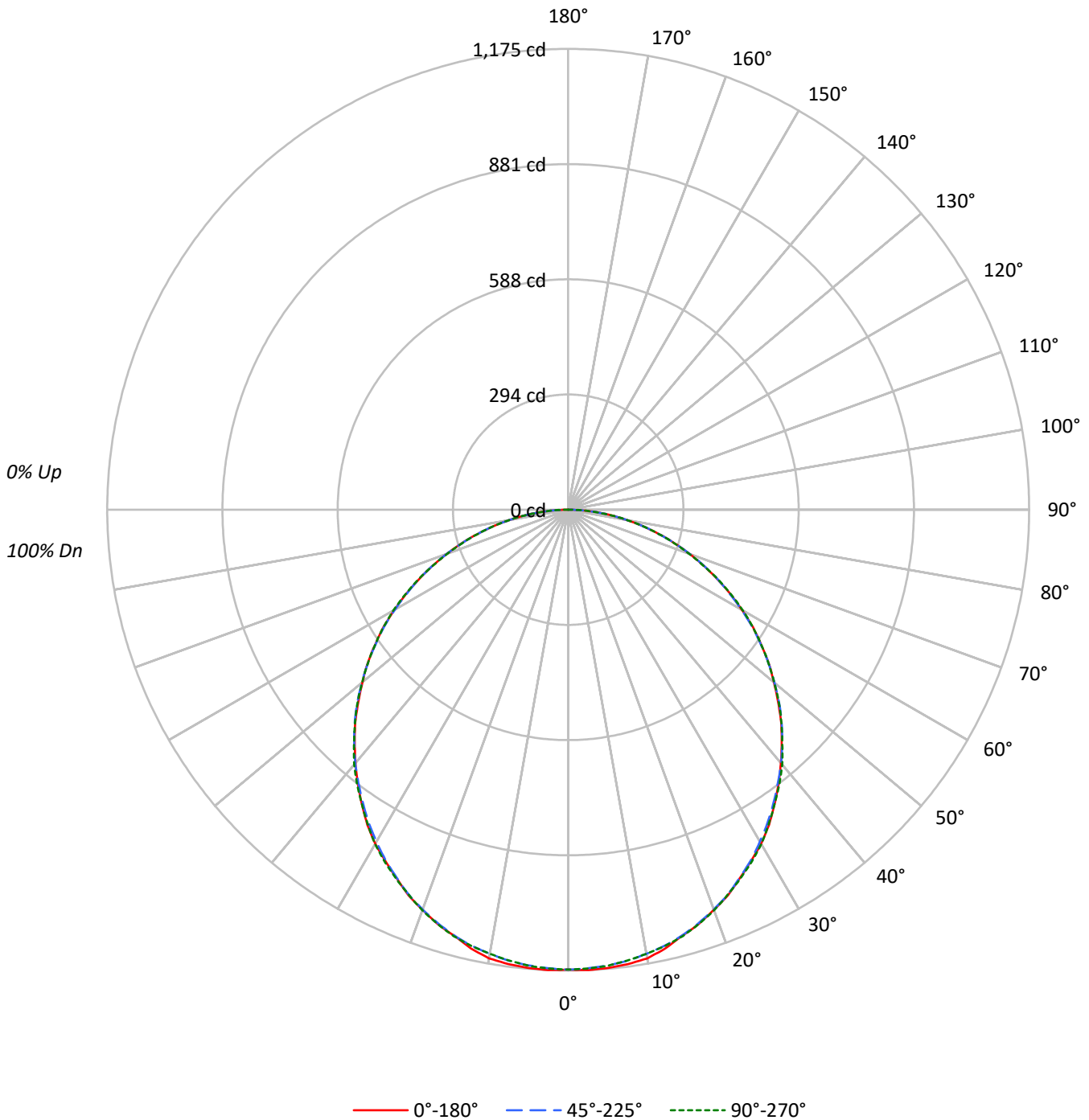
Input Watts (W): 28.720818
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1578	1578	1578
5°	1584	1575	1576
10°	1587	1571	1571
15°	1566	1565	1568
20°	1554	1553	1557
25°	1538	1536	1541
30°	1528	1518	1529
35°	1506	1498	1506
40°	1482	1483	1491
45°	1460	1465	1462
50°	1433	1438	1434
55°	1411	1407	1411
60°	1378	1373	1386
65°	1335	1340	1345
70°	1292	1298	1289
75°	1246	1246	1246
80°	1177	1177	1189
85°	1087	1099	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.3
10°-20°	317.0	9.4
20°-30°	477.7	14.2
30°-40°	572.1	17.1
40°-50°	592.2	17.7
50°-60°	537.0	16.0
60°-70°	416.3	12.4
70°-80°	253.2	7.5
80°-90°	78.8	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°	905.5	27.0
0°-40°	1477.6	44.0
0°-60°	2606.8	77.7
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1173	1166	1166	1165	1167	112
15°	1124	1125	1124	1120	1126	318
25°	1036	1036	1035	1038	1038	478
35°	917	911	912	916	917	574
45°	768	769	770	767	768	591
55°	601	598	600	602	601	537
65°	419	422	421	419	422	416
75°	240	239	240	239	240	253
85°	70	70	71	70	69	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.6	1172.6	1172.6	1172.6	1172.6
2.5°	1175.0	1170.2	1170.2	1168.7	1171.0
5°	1172.6	1165.5	1166.3	1164.7	1167.1
7.5°	1168.7	1159.2	1160.0	1158.4	1159.2
10°	1161.5	1150.5	1149.7	1148.9	1149.7
12.5°	1145.7	1139.4	1138.6	1137.0	1139.4
15°	1124.3	1125.1	1123.6	1119.6	1125.9
17.5°	1107.7	1106.9	1105.4	1101.4	1107.7
20°	1085.6	1086.4	1084.8	1083.2	1087.2
22.5°	1064.2	1061.8	1062.6	1061.8	1062.6
25°	1035.7	1035.7	1034.9	1038.1	1038.1
27.5°	1009.6	1006.5	1008.0	1011.2	1012.8
30°	983.5	975.6	977.2	980.3	984.3
32.5°	952.6	944.7	946.3	949.5	951.1
35°	917.0	910.7	912.3	916.3	917.0
37.5°	880.6	876.7	878.3	881.4	883.8
40°	843.5	841.9	844.2	843.5	849.0
42.5°	805.5	804.7	807.1	807.1	807.9
45°	767.5	769.1	769.9	766.7	768.3
47.5°	725.6	726.4	729.5	727.9	728.7
50°	684.4	683.6	686.8	687.6	685.2
52.5°	644.9	640.9	644.1	645.6	644.1
55°	601.3	598.2	599.8	602.1	601.3
57.5°	558.6	555.4	556.2	560.2	558.6
60°	511.9	511.1	510.3	513.5	515.1
62.5°	466.0	465.2	463.7	466.8	468.4
65°	419.4	421.7	420.9	419.4	422.5
67.5°	375.0	377.4	375.0	373.5	373.5
70°	328.4	330.7	329.9	328.4	327.6
72.5°	284.8	284.8	283.3	282.5	283.3
75°	239.7	239.0	239.7	239.0	239.7
77.5°	195.4	196.2	196.2	196.2	195.4
80°	151.9	151.9	151.9	152.7	153.5
82.5°	111.6	109.2	111.6	110.0	110.8
85°	70.4	69.6	71.2	70.4	68.8
87.5°	31.6	32.4	32.4	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)