

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: P294186

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294186
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-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 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

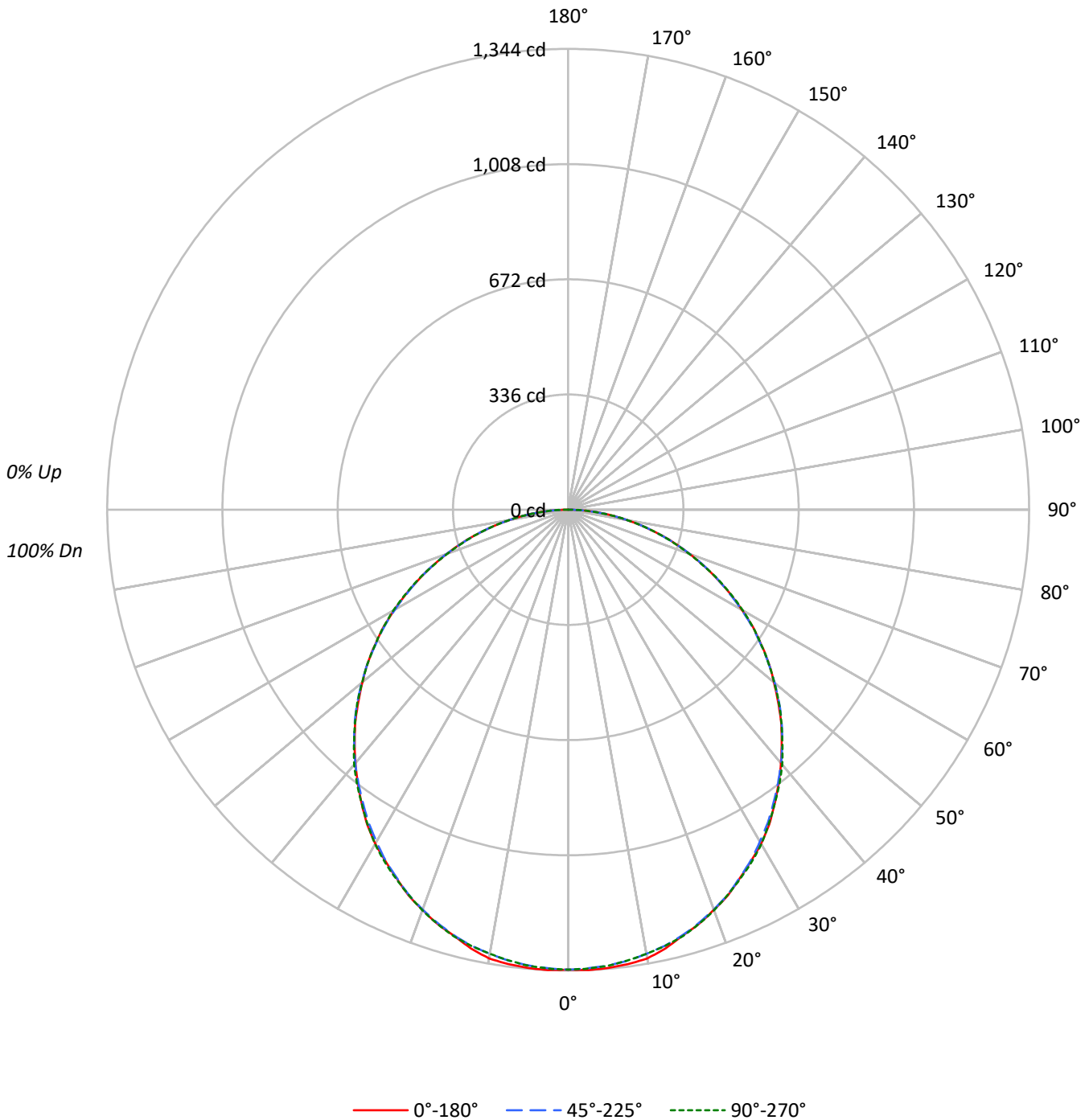
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1805	1805	1805
5°	1812	1802	1803
10°	1815	1797	1797
15°	1792	1790	1794
20°	1778	1777	1781
25°	1759	1758	1763
30°	1748	1737	1749
35°	1723	1714	1723
40°	1695	1696	1706
45°	1671	1676	1672
50°	1639	1645	1641
55°	1614	1609	1614
60°	1576	1571	1586
65°	1527	1533	1539
70°	1478	1485	1474
75°	1426	1426	1426
80°	1347	1347	1361
85°	1244	1258	1215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.3
10°-20°	362.6	9.4
20°-30°	546.4	14.2
30°-40°	654.5	17.1
40°-50°	677.4	17.7
50°-60°	614.3	16.0
60°-70°	476.2	12.4
70°-80°	289.6	7.5
80°-90°	90.1	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°	1035.9	27.0
0°-40°	1690.3	44.0
0°-60°	2982.0	77.7
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1341	1333	1334	1332	1335	128
15°	1286	1287	1285	1281	1288	364
25°	1185	1185	1184	1188	1188	547
35°	1049	1042	1044	1048	1049	656
45°	878	880	881	877	879	676
55°	688	684	686	689	688	615
65°	480	482	482	480	483	476
75°	274	273	274	273	274	290
85°	81	80	82	81	79	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1344.1	1338.7	1338.7	1336.9	1339.6
5°	1341.4	1333.3	1334.2	1332.4	1335.1
7.5°	1336.9	1326.0	1326.9	1325.1	1326.0
10°	1328.8	1316.1	1315.2	1314.3	1315.2
12.5°	1310.7	1303.4	1302.5	1300.7	1303.4
15°	1286.2	1287.1	1285.3	1280.8	1288.0
17.5°	1267.2	1266.3	1264.5	1260.0	1267.2
20°	1241.9	1242.8	1241.0	1239.1	1243.7
22.5°	1217.4	1214.7	1215.6	1214.7	1215.6
25°	1184.8	1184.8	1183.9	1187.6	1187.6
27.5°	1155.0	1151.3	1153.2	1156.8	1158.6
30°	1125.1	1116.0	1117.9	1121.5	1126.0
32.5°	1089.8	1080.7	1082.6	1086.2	1088.0
35°	1049.1	1041.8	1043.6	1048.2	1049.1
37.5°	1007.4	1002.9	1004.7	1008.3	1011.0
40°	964.9	963.1	965.8	964.9	971.2
42.5°	921.4	920.5	923.2	923.2	924.2
45°	878.0	879.8	880.7	877.1	878.9
47.5°	830.0	830.9	834.5	832.7	833.6
50°	783.0	782.0	785.7	786.6	783.9
52.5°	737.7	733.2	736.8	738.6	736.8
55°	687.9	684.3	686.1	688.8	687.9
57.5°	639.0	635.4	636.3	640.8	639.0
60°	585.6	584.7	583.8	587.4	589.2
62.5°	533.1	532.2	530.4	534.0	535.8
65°	479.7	482.4	481.5	479.7	483.3
67.5°	429.0	431.8	429.0	427.2	427.2
70°	375.6	378.4	377.4	375.6	374.7
72.5°	325.9	325.9	324.0	323.1	324.0
75°	274.3	273.4	274.3	273.4	274.3
77.5°	223.6	224.5	224.5	224.5	223.6
80°	173.8	173.8	173.8	174.7	175.6
82.5°	127.6	124.9	127.6	125.8	126.7
85°	80.6	79.7	81.5	80.6	78.7
87.5°	36.2	37.1	37.1	38.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)