

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: P294187

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294187
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

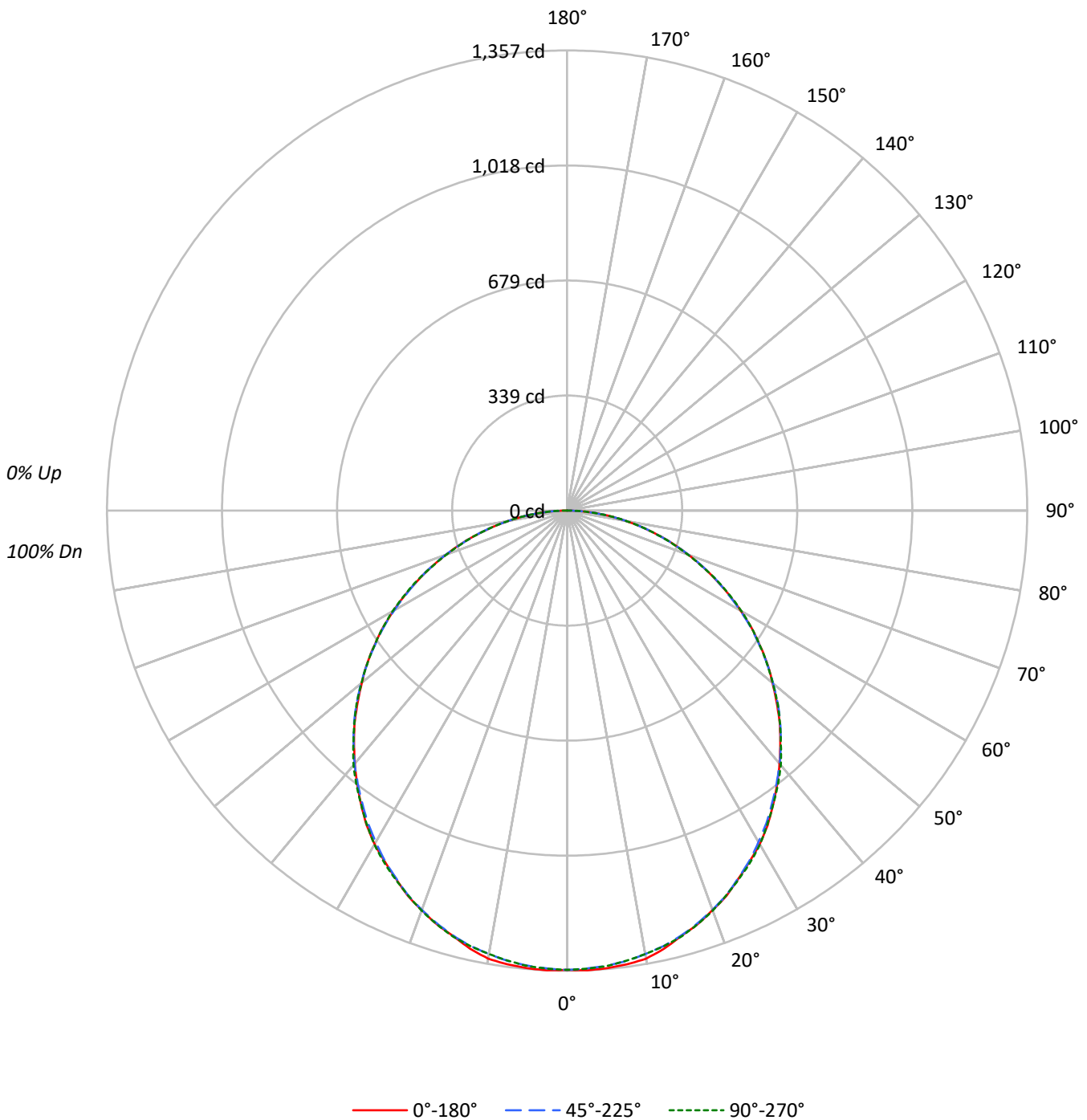
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1822	1822	1822
5°	1829	1819	1821
10°	1833	1814	1814
15°	1809	1808	1811
20°	1795	1794	1798
25°	1776	1775	1780
30°	1765	1753	1766
35°	1740	1731	1740
40°	1711	1713	1722
45°	1687	1692	1689
50°	1655	1660	1657
55°	1629	1625	1629
60°	1591	1586	1601
65°	1542	1548	1554
70°	1492	1499	1488
75°	1439	1439	1439
80°	1360	1360	1374
85°	1255	1269	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.3
10°-20°	366.1	9.4
20°-30°	551.7	14.2
30°-40°	660.8	17.1
40°-50°	684.0	17.7
50°-60°	620.2	16.0
60°-70°	480.8	12.4
70°-80°	292.4	7.5
80°-90°	91.0	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°	1045.8	27.0
0°-40°	1706.6	44.0
0°-60°	3010.8	77.7
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1354	1346	1347	1345	1348	129
15°	1299	1300	1298	1293	1300	367
25°	1196	1196	1195	1199	1199	552
35°	1059	1052	1054	1058	1059	663
45°	886	888	889	886	887	683
55°	694	691	693	696	694	621
65°	484	487	486	484	488	480
75°	277	276	277	276	277	293
85°	81	80	82	81	80	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.4	1354.4	1354.4	1354.4	1354.4
2.5°	1357.1	1351.6	1351.6	1349.8	1352.5
5°	1354.4	1346.1	1347.0	1345.2	1348.0
7.5°	1349.8	1338.8	1339.7	1337.9	1338.8
10°	1341.6	1328.8	1327.9	1326.9	1327.9
12.5°	1323.3	1316.0	1315.1	1313.2	1316.0
15°	1298.6	1299.5	1297.7	1293.1	1300.4
17.5°	1279.4	1278.5	1276.7	1272.1	1279.4
20°	1253.8	1254.7	1252.9	1251.1	1255.7
22.5°	1229.2	1226.4	1227.3	1226.4	1227.3
25°	1196.3	1196.3	1195.3	1199.0	1199.0
27.5°	1166.1	1162.4	1164.3	1167.9	1169.8
30°	1135.9	1126.8	1128.6	1132.3	1136.9
32.5°	1100.3	1091.2	1093.0	1096.6	1098.5
35°	1059.2	1051.9	1053.7	1058.3	1059.2
37.5°	1017.1	1012.6	1014.4	1018.1	1020.8
40°	974.2	972.4	975.1	974.2	980.6
42.5°	930.3	929.4	932.1	932.1	933.1
45°	886.5	888.3	889.2	885.5	887.4
47.5°	838.0	838.9	842.6	840.8	841.7
50°	790.5	789.6	793.2	794.2	791.4
52.5°	744.8	740.2	743.9	745.7	743.9
55°	694.5	690.9	692.7	695.5	694.5
57.5°	645.2	641.5	642.5	647.0	645.2
60°	591.3	590.4	589.4	593.1	594.9
62.5°	538.3	537.4	535.5	539.2	541.0
65°	484.4	487.1	486.2	484.4	488.0
67.5°	433.2	435.9	433.2	431.3	431.3
70°	379.3	382.0	381.1	379.3	378.3
72.5°	329.0	329.0	327.2	326.3	327.2
75°	276.9	276.0	276.9	276.0	276.9
77.5°	225.7	226.6	226.6	226.6	225.7
80°	175.5	175.5	175.5	176.4	177.3
82.5°	128.9	126.1	128.9	127.0	127.9
85°	81.3	80.4	82.2	81.3	79.5
87.5°	36.6	37.5	37.5	38.4	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)