

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: P293108

Luminaire Tested: **24GR-LD5-42-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

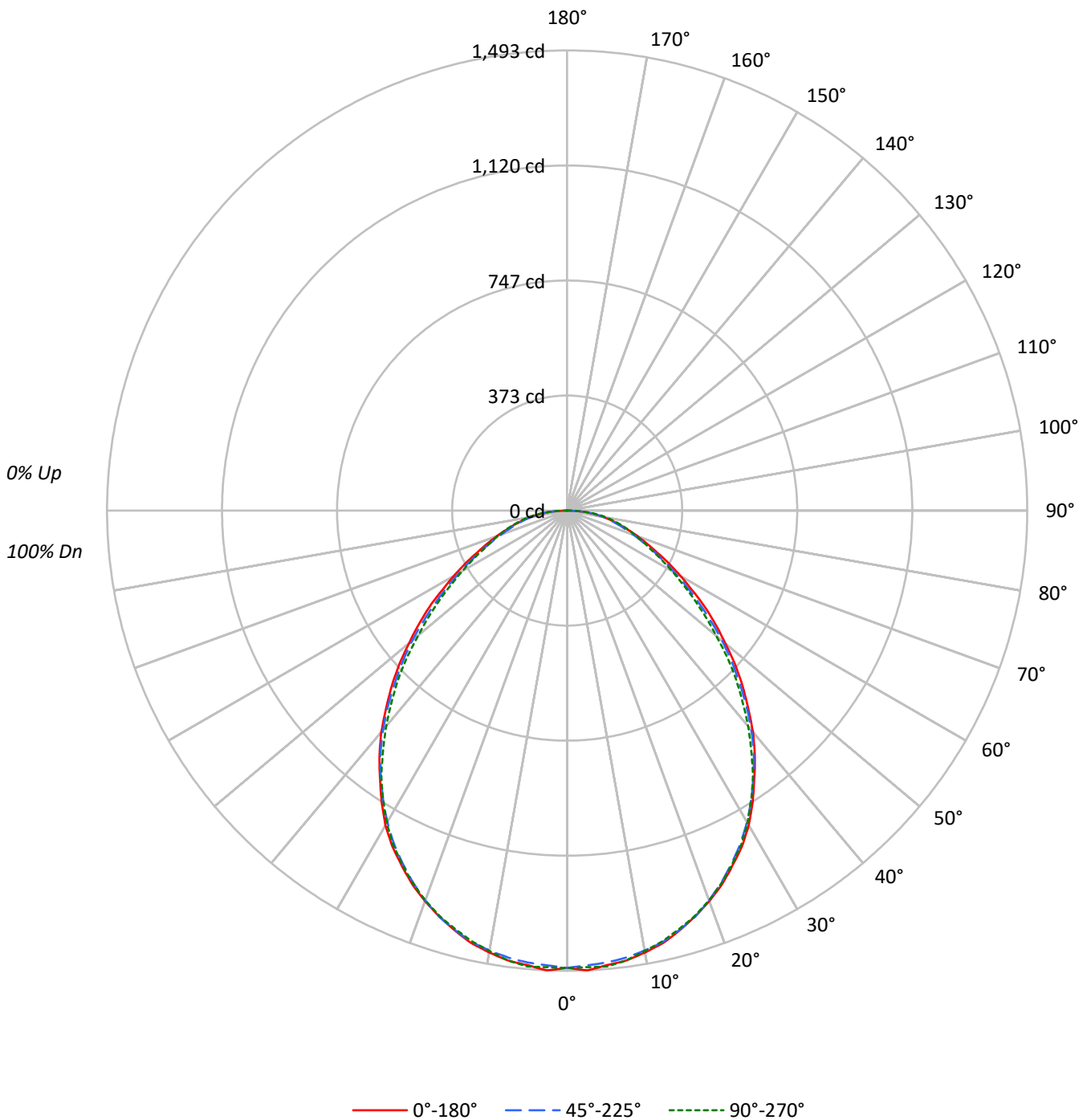
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1996	1996	1996
5°	1999	1988	2005
10°	1989	1980	1982
15°	1964	1962	1957
20°	1931	1927	1927
25°	1886	1875	1880
30°	1831	1813	1818
35°	1739	1731	1727
40°	1647	1632	1604
45°	1531	1504	1475
50°	1402	1372	1320
55°	1281	1223	1182
60°	1142	1086	1058
65°	1027	974	960
70°	954	895	931
75°	912	872	945
80°	912	912	1010
85°	946	957	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	4.1
10°-20°	396.6	11.6
20°-30°	582.0	17.0
30°-40°	658.0	19.3
40°-50°	608.1	17.8
50°-60°	468.5	13.7
60°-70°	310.3	9.1
70°-80°	184.7	5.4
80°-90°	67.7	2.0
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°	1118.7	32.7
0°-40°	1776.7	52.0
0°-60°	2853.4	83.5
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1480	1480	1472	1473	1484	141
15°	1410	1407	1408	1408	1405	397
25°	1270	1267	1263	1262	1266	585
35°	1059	1058	1054	1049	1051	663
45°	805	799	790	776	775	620
55°	546	535	521	507	504	487
65°	323	318	306	303	302	324
75°	175	171	168	175	182	187
85°	61	58	62	68	69	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.8	1483.8	1483.8	1483.8	1483.8
2.5°	1493.0	1485.2	1476.8	1476.8	1483.1
5°	1480.3	1480.3	1471.9	1472.6	1484.5
7.5°	1472.6	1468.3	1462.7	1462.7	1471.9
10°	1455.6	1452.1	1449.3	1447.9	1450.7
12.5°	1437.3	1431.7	1433.8	1431.7	1431.0
15°	1409.8	1407.0	1408.4	1407.7	1404.9
17.5°	1380.3	1378.8	1381.7	1376.7	1378.8
20°	1348.6	1344.3	1345.7	1342.9	1345.7
22.5°	1312.6	1309.8	1306.3	1302.8	1308.4
25°	1270.3	1266.8	1263.3	1261.9	1266.1
27.5°	1228.1	1222.4	1217.5	1216.1	1222.4
30°	1178.7	1172.4	1166.8	1165.4	1170.3
32.5°	1120.3	1118.9	1111.8	1109.0	1111.1
35°	1059.0	1057.6	1054.0	1049.1	1051.2
37.5°	1000.5	999.8	994.9	986.4	980.8
40°	937.8	932.9	929.3	917.4	913.1
42.5°	868.7	867.3	861.0	847.6	842.7
45°	804.6	799.0	790.5	776.4	775.0
47.5°	738.4	730.6	722.9	705.3	704.6
50°	670.0	664.4	655.3	637.6	630.6
52.5°	606.6	598.9	586.2	569.3	565.8
55°	546.0	534.8	521.4	507.3	503.8
57.5°	481.2	476.3	460.1	448.8	444.6
60°	424.2	419.9	403.7	393.2	393.2
62.5°	372.7	366.4	352.3	345.2	345.2
65°	322.7	317.8	305.8	303.0	301.6
67.5°	279.7	273.4	264.9	264.2	267.7
70°	242.4	234.6	227.6	234.6	236.7
72.5°	207.1	202.2	195.9	205.0	209.3
75°	175.4	171.2	167.7	175.4	181.8
77.5°	146.6	142.3	142.3	150.8	156.4
80°	117.7	114.8	117.7	124.7	130.3
82.5°	90.2	88.1	91.6	98.6	102.2
85°	61.3	57.8	62.0	68.3	69.0
87.5°	28.9	28.2	31.0	35.2	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)