

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: P293110

Luminaire Tested: **24GR-LD5-42-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293110
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3702.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

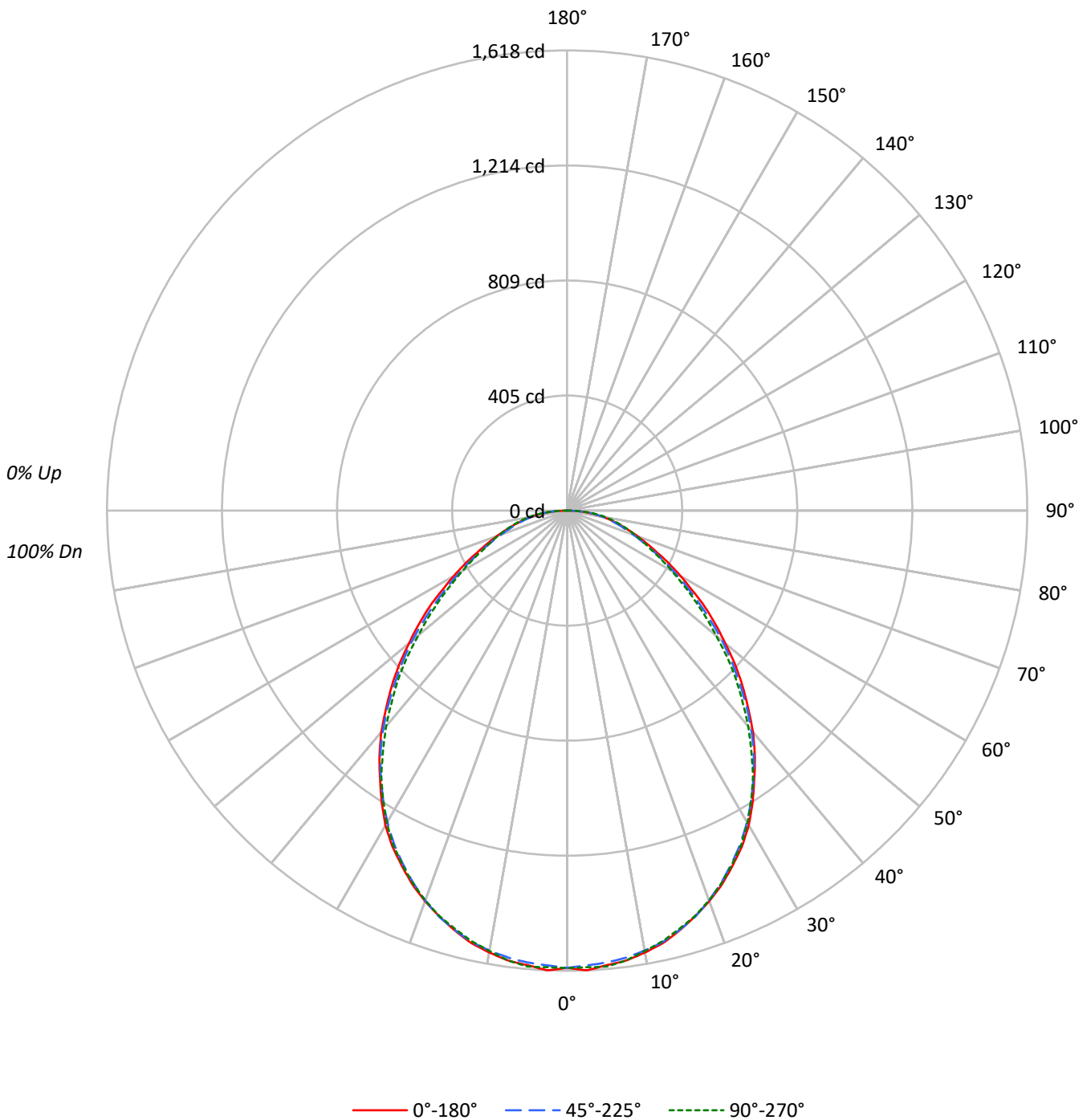
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2164	2164	2164
5°	2167	2154	2173
10°	2155	2146	2148
15°	2128	2126	2121
20°	2093	2088	2088
25°	2044	2033	2037
30°	1985	1965	1970
35°	1885	1876	1871
40°	1785	1769	1738
45°	1659	1630	1598
50°	1520	1486	1430
55°	1388	1325	1281
60°	1237	1177	1147
65°	1113	1055	1040
70°	1033	970	1009
75°	988	945	1024
80°	988	988	1095
85°	1025	1037	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	4.1
10°-20°	429.8	11.6
20°-30°	630.7	17.0
30°-40°	713.1	19.3
40°-50°	659.0	17.8
50°-60°	507.8	13.7
60°-70°	336.2	9.1
70°-80°	200.1	5.4
80°-90°	73.3	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°	1212.4	32.7
0°-40°	1925.5	52.0
0°-60°	3092.3	83.5
0°-90°	3702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1604	1604	1595	1596	1609	152
15°	1528	1525	1526	1526	1522	431
25°	1377	1373	1369	1368	1372	634
35°	1148	1146	1142	1137	1139	718
45°	872	866	857	841	840	672
55°	592	580	565	550	546	528
65°	350	344	331	328	327	351
75°	190	186	182	190	197	203
85°	66	63	67	74	75	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.1	1608.1	1608.1	1608.1	1608.1
2.5°	1618.0	1609.6	1600.4	1600.4	1607.3
5°	1604.2	1604.2	1595.1	1595.8	1608.8
7.5°	1595.8	1591.3	1585.2	1585.2	1595.1
10°	1577.5	1573.7	1570.6	1569.1	1572.2
12.5°	1557.7	1551.6	1553.8	1551.6	1550.8
15°	1527.9	1524.8	1526.4	1525.6	1522.5
17.5°	1495.8	1494.3	1497.3	1492.0	1494.3
20°	1461.5	1456.9	1458.4	1455.3	1458.4
22.5°	1422.5	1419.5	1415.6	1411.8	1417.9
25°	1376.7	1372.9	1369.1	1367.5	1372.1
27.5°	1330.9	1324.8	1319.4	1317.9	1324.8
30°	1277.4	1270.6	1264.5	1262.9	1268.3
32.5°	1214.1	1212.5	1204.9	1201.8	1204.1
35°	1147.6	1146.1	1142.3	1136.9	1139.2
37.5°	1084.3	1083.5	1078.1	1069.0	1062.9
40°	1016.3	1011.0	1007.1	994.2	989.6
42.5°	941.5	939.9	933.1	918.6	913.2
45°	872.0	865.9	856.7	841.4	839.9
47.5°	800.2	791.8	783.4	764.3	763.6
50°	726.1	720.0	710.1	691.0	683.4
52.5°	657.4	649.0	635.3	617.0	613.1
55°	591.8	579.5	565.0	549.8	545.9
57.5°	521.5	516.2	498.6	486.4	481.8
60°	459.7	455.1	437.5	426.1	426.1
62.5°	403.9	397.1	381.8	374.1	374.1
65°	349.7	344.4	331.4	328.3	326.8
67.5°	303.1	296.3	287.1	286.3	290.2
70°	262.7	254.3	246.6	254.3	256.6
72.5°	224.5	219.1	212.3	222.2	226.8
75°	190.1	185.5	181.7	190.1	197.0
77.5°	158.8	154.2	154.2	163.4	169.5
80°	127.5	124.5	127.5	135.2	141.3
82.5°	97.7	95.4	99.3	106.9	110.7
85°	66.4	62.6	67.2	74.1	74.8
87.5°	31.3	30.5	33.6	38.2	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)