

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: P293116

Luminaire Tested: **24GR-LD5-48-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293116
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-LD5-48-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

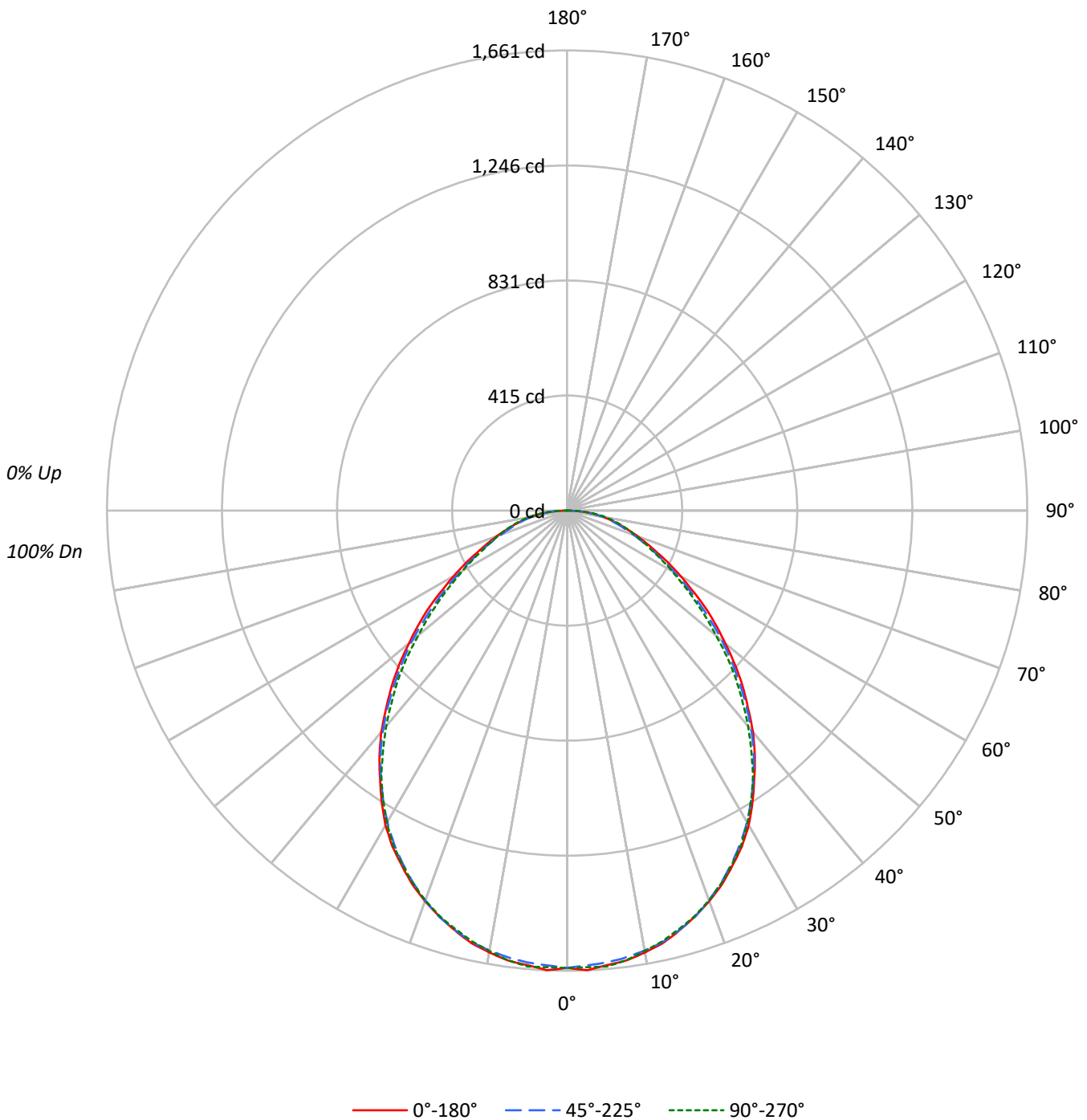
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2221	2221	2221
5°	2224	2211	2230
10°	2212	2203	2205
15°	2185	2182	2177
20°	2148	2143	2143
25°	2098	2086	2091
30°	2037	2016	2023
35°	1935	1926	1921
40°	1832	1816	1784
45°	1703	1673	1641
50°	1560	1526	1468
55°	1425	1361	1315
60°	1270	1209	1177
65°	1143	1083	1068
70°	1061	996	1036
75°	1015	970	1051
80°	1014	1014	1124
85°	1053	1065	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	4.1
10°-20°	441.1	11.6
20°-30°	647.4	17.0
30°-40°	732.0	19.3
40°-50°	676.5	17.8
50°-60°	521.2	13.7
60°-70°	345.1	9.1
70°-80°	205.5	5.4
80°-90°	75.3	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°	1244.5	32.7
0°-40°	1976.4	52.0
0°-60°	3174.1	83.5
0°-90°	3800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1647	1647	1637	1638	1651	156
15°	1568	1565	1567	1566	1563	442
25°	1413	1409	1405	1404	1408	651
35°	1178	1176	1172	1167	1169	737
45°	895	889	879	864	862	689
55°	607	595	580	564	560	542
65°	359	354	340	337	336	360
75°	195	190	186	195	202	208
85°	68	64	69	76	77	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.6	1650.6	1650.6	1650.6	1650.6
2.5°	1660.8	1652.2	1642.8	1642.8	1649.8
5°	1646.7	1646.7	1637.3	1638.1	1651.4
7.5°	1638.1	1633.4	1627.1	1627.1	1637.3
10°	1619.3	1615.4	1612.2	1610.7	1613.8
12.5°	1598.9	1592.6	1595.0	1592.6	1591.8
15°	1568.3	1565.2	1566.8	1566.0	1562.8
17.5°	1535.4	1533.8	1537.0	1531.5	1533.8
20°	1500.1	1495.4	1497.0	1493.9	1497.0
22.5°	1460.2	1457.0	1453.1	1449.2	1455.5
25°	1413.1	1409.2	1405.3	1403.7	1408.4
27.5°	1366.1	1359.8	1354.4	1352.8	1359.8
30°	1311.3	1304.2	1297.9	1296.4	1301.9
32.5°	1246.2	1244.6	1236.8	1233.7	1236.0
35°	1178.0	1176.4	1172.5	1167.0	1169.4
37.5°	1113.0	1112.2	1106.7	1097.3	1091.0
40°	1043.2	1037.7	1033.8	1020.5	1015.8
42.5°	966.4	964.8	957.8	942.9	937.4
45°	895.1	888.8	879.4	863.7	862.2
47.5°	821.4	812.8	804.2	784.6	783.8
50°	745.4	739.1	728.9	709.3	701.5
52.5°	674.8	666.2	652.1	633.3	629.4
55°	607.4	594.9	580.0	564.3	560.4
57.5°	535.3	529.8	511.8	499.3	494.6
60°	471.8	467.1	449.1	437.3	437.3
62.5°	414.6	407.6	391.9	384.0	384.0
65°	359.0	353.5	340.2	337.0	335.5
67.5°	311.2	304.1	294.7	293.9	297.8
70°	269.6	261.0	253.2	261.0	263.3
72.5°	230.4	224.9	217.9	228.1	232.8
75°	195.2	190.5	186.5	195.2	202.2
77.5°	163.0	158.3	158.3	167.7	174.0
80°	130.9	127.8	130.9	138.7	145.0
82.5°	100.3	98.0	101.9	109.7	113.6
85°	68.2	64.3	69.0	76.0	76.8
87.5°	32.1	31.4	34.5	39.2	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)