

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: P293119

Luminaire Tested: **24GR-LD5-48-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293119
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-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: 4283.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

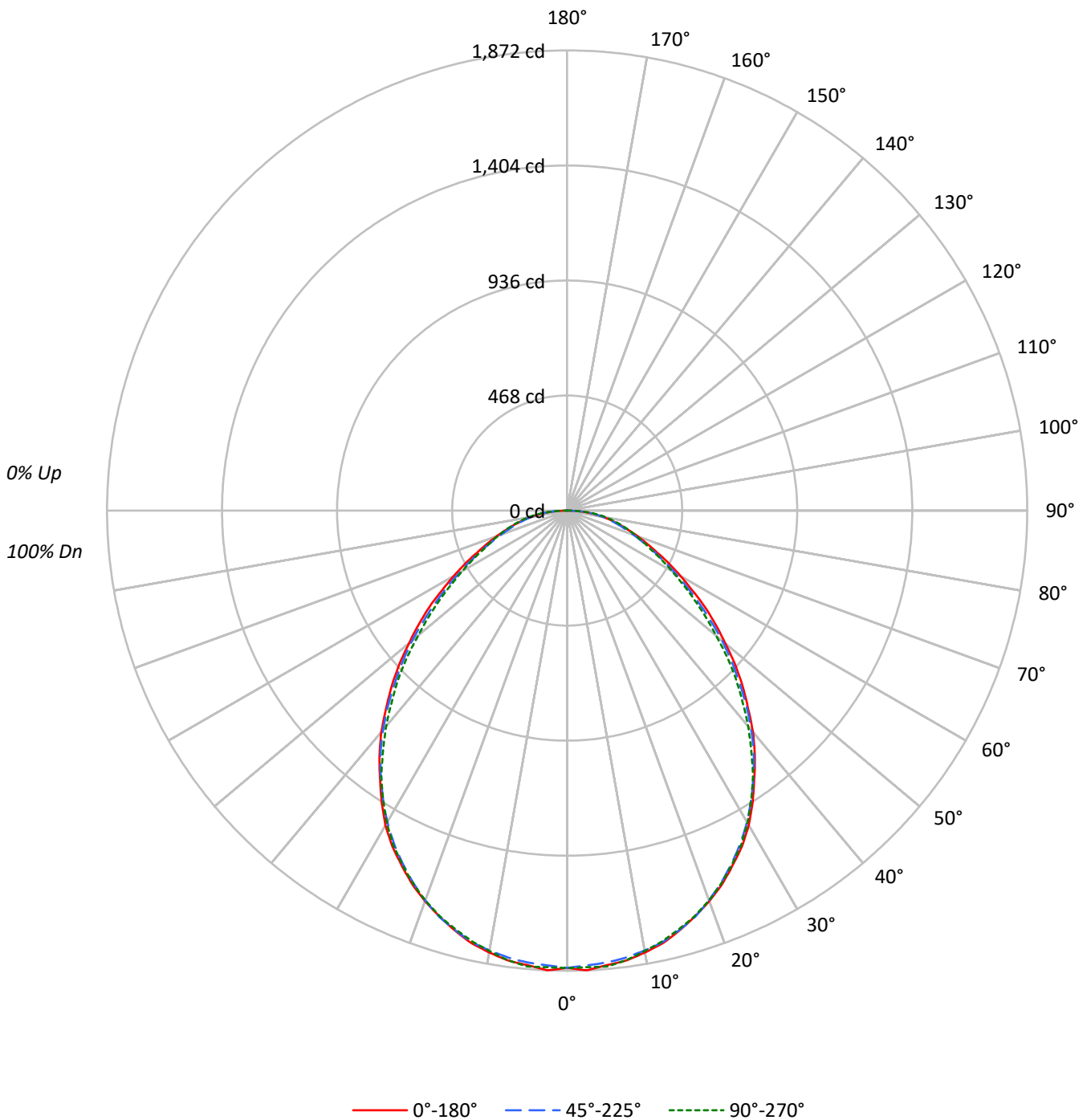
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2503	2503	2503
5°	2507	2492	2514
10°	2494	2483	2485
15°	2462	2460	2454
20°	2421	2416	2416
25°	2365	2351	2357
30°	2296	2273	2280
35°	2181	2171	2165
40°	2065	2047	2011
45°	1920	1886	1849
50°	1759	1720	1655
55°	1606	1533	1482
60°	1431	1362	1326
65°	1288	1221	1204
70°	1196	1122	1168
75°	1144	1093	1185
80°	1143	1143	1266
85°	1187	1200	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	4.1
10°-20°	497.2	11.6
20°-30°	729.7	17.0
30°-40°	825.0	19.3
40°-50°	762.5	17.8
50°-60°	587.5	13.7
60°-70°	389.0	9.1
70°-80°	231.6	5.4
80°-90°	84.8	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°	1402.6	32.7
0°-40°	2227.7	52.0
0°-60°	3577.6	83.5
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1856	1856	1845	1846	1861	176
15°	1768	1764	1766	1765	1762	498
25°	1593	1588	1584	1582	1588	733
35°	1328	1326	1322	1315	1318	831
45°	1009	1002	991	974	972	777
55°	685	670	654	636	632	611
65°	405	398	383	380	378	406
75°	220	215	210	220	228	235
85°	77	72	78	86	87	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.4	1860.4	1860.4	1860.4	1860.4
2.5°	1871.9	1862.2	1851.6	1851.6	1859.6
5°	1856.0	1856.0	1845.4	1846.3	1861.3
7.5°	1846.3	1841.0	1833.9	1833.9	1845.4
10°	1825.1	1820.7	1817.1	1815.4	1818.9
12.5°	1802.1	1795.1	1797.7	1795.1	1794.2
15°	1767.7	1764.1	1765.9	1765.0	1761.5
17.5°	1730.6	1728.8	1732.3	1726.2	1728.8
20°	1690.8	1685.5	1687.3	1683.8	1687.3
22.5°	1645.8	1642.2	1637.8	1633.4	1640.5
25°	1592.8	1588.3	1583.9	1582.2	1587.5
27.5°	1539.8	1532.7	1526.5	1524.7	1532.7
30°	1477.9	1470.0	1462.9	1461.1	1467.3
32.5°	1404.6	1402.8	1394.0	1390.5	1393.1
35°	1327.7	1326.0	1321.6	1315.4	1318.0
37.5°	1254.4	1253.5	1247.4	1236.8	1229.7
40°	1175.8	1169.6	1165.2	1150.2	1144.9
42.5°	1089.2	1087.5	1079.5	1062.7	1056.5
45°	1008.8	1001.8	991.2	973.5	971.7
47.5°	925.8	916.1	906.4	884.3	883.4
50°	840.1	833.0	821.6	799.5	790.6
52.5°	760.6	750.9	735.0	713.8	709.4
55°	684.6	670.5	653.7	636.0	631.6
57.5°	603.4	597.2	576.9	562.7	557.4
60°	531.8	526.5	506.2	492.9	492.9
62.5°	467.3	459.4	441.7	432.9	432.9
65°	404.6	398.4	383.4	379.9	378.1
67.5°	350.7	342.8	332.2	331.3	335.7
70°	303.9	294.2	285.3	294.2	296.8
72.5°	259.7	253.5	245.6	257.1	262.4
75°	220.0	214.7	210.2	220.0	227.9
77.5°	183.7	178.4	178.4	189.0	196.1
80°	147.5	144.0	147.5	156.4	163.4
82.5°	113.1	110.4	114.8	123.7	128.1
85°	76.9	72.4	77.7	85.7	86.6
87.5°	36.2	35.3	38.9	44.2	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)