

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: P292995

Luminaire Tested: **24GR-LD5-48-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292995
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-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.0 lumens
Efficiency: N/A
Efficacy: 148.7 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

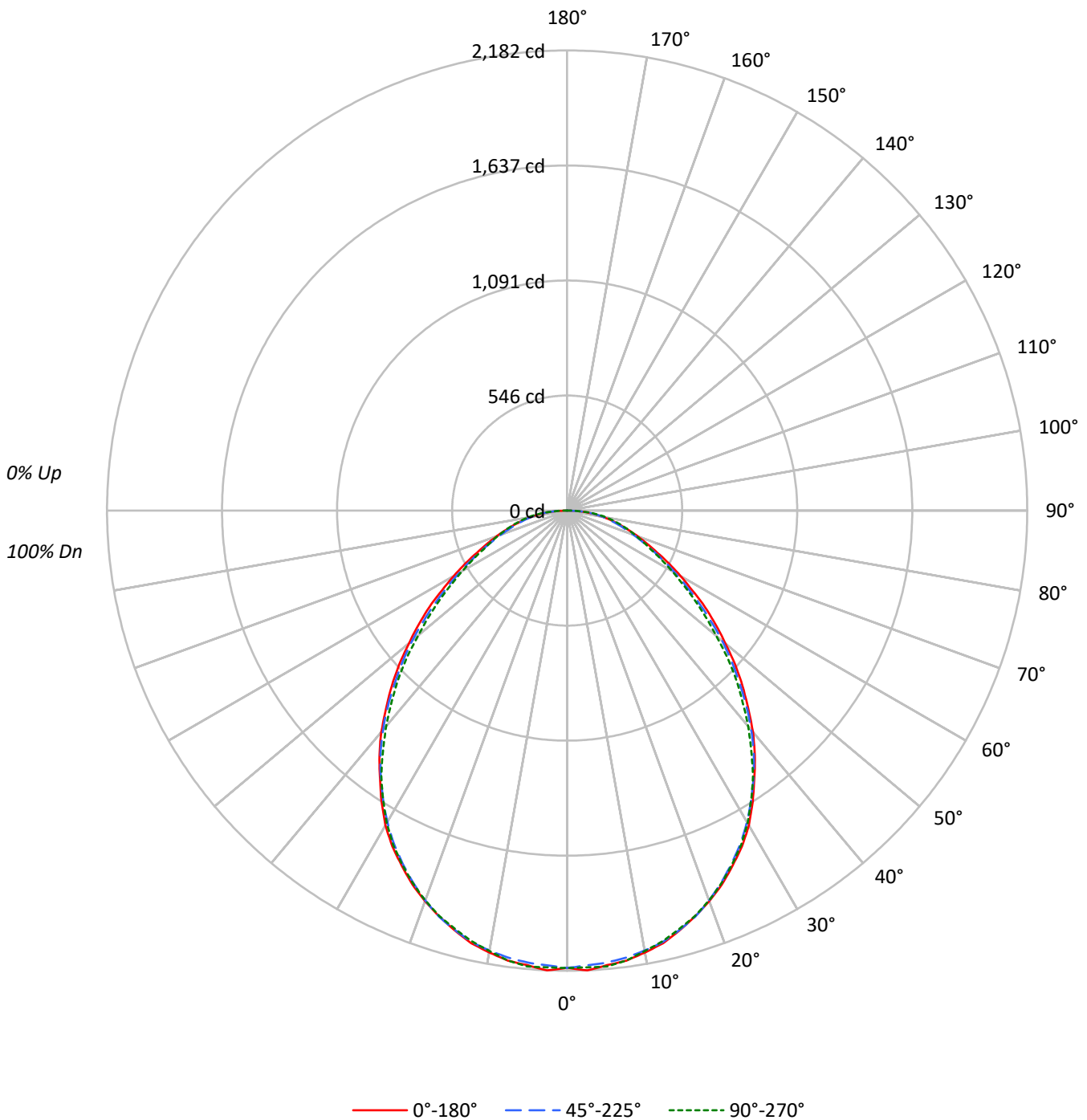
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2918	2918	2918
5°	2922	2906	2931
10°	2907	2894	2897
15°	2870	2868	2860
20°	2822	2816	2816
25°	2757	2741	2747
30°	2677	2650	2658
35°	2542	2530	2524
40°	2408	2386	2344
45°	2238	2199	2156
50°	2050	2005	1929
55°	1872	1788	1727
60°	1668	1588	1547
65°	1502	1423	1403
70°	1394	1308	1361
75°	1333	1274	1381
80°	1333	1333	1476
85°	1383	1399	1558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	4.1
10°-20°	579.6	11.6
20°-30°	850.7	17.0
30°-40°	961.8	19.3
40°-50°	888.9	17.8
50°-60°	684.8	13.7
60°-70°	453.5	9.1
70°-80°	270.0	5.4
80°-90°	98.9	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°	1635.2	32.7
0°-40°	2596.9	52.0
0°-60°	4170.7	83.5
0°-90°	4993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2164	2164	2151	2152	2170	206
15°	2061	2057	2059	2058	2054	581
25°	1857	1852	1846	1844	1851	855
35°	1548	1546	1541	1533	1536	969
45°	1176	1168	1156	1135	1133	906
55°	798	782	762	742	736	712
65°	472	464	447	443	441	473
75°	256	250	245	256	266	273
85°	90	84	91	100	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2168.8	2168.8	2168.8	2168.8	2168.8
2.5°	2182.2	2170.9	2158.5	2158.5	2167.8
5°	2163.7	2163.7	2151.3	2152.4	2169.9
7.5°	2152.4	2146.2	2137.9	2137.9	2151.3
10°	2127.6	2122.5	2118.4	2116.3	2120.4
12.5°	2100.9	2092.6	2095.7	2092.6	2091.6
15°	2060.7	2056.6	2058.6	2057.6	2053.5
17.5°	2017.5	2015.4	2019.5	2012.3	2015.4
20°	1971.1	1964.9	1967.0	1962.9	1967.0
22.5°	1918.6	1914.5	1909.3	1904.2	1912.4
25°	1856.8	1851.7	1846.5	1844.4	1850.6
27.5°	1795.0	1786.8	1779.6	1777.5	1786.8
30°	1722.9	1713.7	1705.4	1703.4	1710.6
32.5°	1637.4	1635.4	1625.1	1621.0	1624.1
35°	1547.8	1545.8	1540.6	1533.4	1536.5
37.5°	1462.4	1461.3	1454.1	1441.8	1433.5
40°	1370.7	1363.5	1358.4	1340.9	1334.7
42.5°	1269.8	1267.7	1258.5	1238.9	1231.7
45°	1176.1	1167.8	1155.5	1134.9	1132.8
47.5°	1079.3	1067.9	1056.6	1030.9	1029.8
50°	979.4	971.1	957.8	932.0	921.7
52.5°	886.7	875.4	856.8	832.1	827.0
55°	798.1	781.6	762.1	741.5	736.3
57.5°	703.4	696.2	672.5	656.0	649.8
60°	620.0	613.8	590.1	574.7	574.7
62.5°	544.8	535.5	514.9	504.6	504.6
65°	471.7	464.5	447.0	442.8	440.8
67.5°	408.8	399.6	387.2	386.2	391.3
70°	354.3	342.9	332.6	342.9	346.0
72.5°	302.8	295.6	286.3	299.7	305.9
75°	256.4	250.3	245.1	256.4	265.7
77.5°	214.2	208.0	208.0	220.4	228.6
80°	172.0	167.9	172.0	182.3	190.5
82.5°	131.8	128.7	133.9	144.2	149.3
85°	89.6	84.4	90.6	99.9	100.9
87.5°	42.2	41.2	45.3	51.5	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)