

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: P294191

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-FGW080-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4439.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

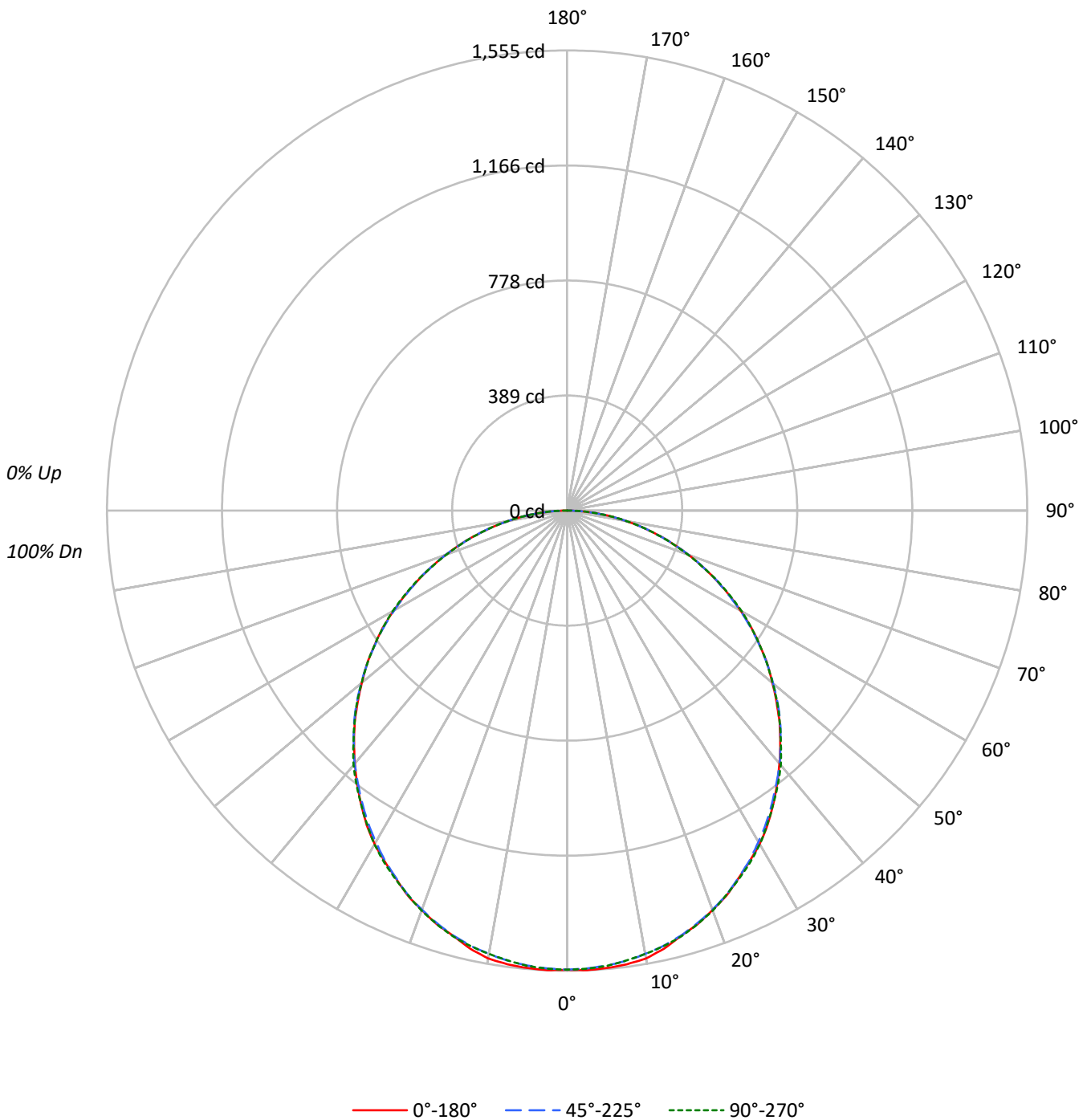
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2088	2088	2088
5°	2096	2084	2086
10°	2100	2078	2078
15°	2072	2071	2075
20°	2057	2055	2060
25°	2034	2033	2039
30°	2022	2009	2023
35°	1993	1983	1993
40°	1960	1962	1973
45°	1932	1938	1934
50°	1896	1902	1898
55°	1866	1861	1866
60°	1823	1817	1834
65°	1766	1773	1780
70°	1709	1718	1705
75°	1649	1649	1649
80°	1557	1557	1574
85°	1439	1454	1406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.3
10°-20°	419.4	9.4
20°-30°	632.0	14.2
30°-40°	757.0	17.1
40°-50°	783.5	17.7
50°-60°	710.5	16.0
60°-70°	550.8	12.4
70°-80°	335.0	7.5
80°-90°	104.2	2.3
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°	1198.1	27.0
0°-40°	1955.0	44.0
0°-60°	3449.0	77.7
0°-90°	4439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1542	1543	1541	1544	148
15°	1488	1489	1487	1481	1490	421
25°	1370	1370	1369	1374	1374	633
35°	1213	1205	1207	1212	1213	759
45°	1016	1018	1019	1014	1016	782
55°	796	791	794	797	796	711
65°	555	558	557	555	559	550
75°	317	316	317	316	317	335
85°	93	92	94	93	91	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.5	1551.5	1551.5	1551.5	1551.5
2.5°	1554.6	1548.3	1548.3	1546.2	1549.4
5°	1551.5	1542.1	1543.1	1541.0	1544.2
7.5°	1546.2	1533.7	1534.7	1532.6	1533.7
10°	1536.8	1522.2	1521.1	1520.1	1521.1
12.5°	1515.9	1507.5	1506.5	1504.4	1507.5
15°	1487.6	1488.7	1486.6	1481.3	1489.7
17.5°	1465.6	1464.6	1462.5	1457.3	1465.6
20°	1436.3	1437.4	1435.3	1433.2	1438.4
22.5°	1408.1	1404.9	1406.0	1404.9	1406.0
25°	1370.4	1370.4	1369.3	1373.5	1373.5
27.5°	1335.8	1331.6	1333.7	1337.9	1340.0
30°	1301.3	1290.8	1292.9	1297.1	1302.3
32.5°	1260.4	1250.0	1252.1	1256.3	1258.4
35°	1213.3	1205.0	1207.1	1212.3	1213.3
37.5°	1165.2	1159.9	1162.0	1166.2	1169.4
40°	1116.0	1113.9	1117.0	1116.0	1123.3
42.5°	1065.7	1064.7	1067.8	1067.8	1068.9
45°	1015.5	1017.6	1018.6	1014.4	1016.5
47.5°	960.0	961.0	965.2	963.1	964.2
50°	905.6	904.5	908.7	909.7	906.6
52.5°	853.2	848.0	852.2	854.3	852.2
55°	795.6	791.4	793.5	796.7	795.6
57.5°	739.1	734.9	736.0	741.2	739.1
60°	677.3	676.3	675.2	679.4	681.5
62.5°	616.6	615.6	613.5	617.7	619.8
65°	554.8	558.0	556.9	554.8	559.0
67.5°	496.2	499.4	496.2	494.1	494.1
70°	434.5	437.6	436.6	434.5	433.4
72.5°	376.9	376.9	374.8	373.7	374.8
75°	317.2	316.2	317.2	316.2	317.2
77.5°	258.6	259.6	259.6	259.6	258.6
80°	201.0	201.0	201.0	202.0	203.1
82.5°	147.6	144.5	147.6	145.5	146.6
85°	93.2	92.1	94.2	93.2	91.1
87.5°	41.9	42.9	42.9	44.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)