

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: P292971

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292971
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-LD5-34-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.0 lumens
Efficiency: N/A
Efficacy: 152.1 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

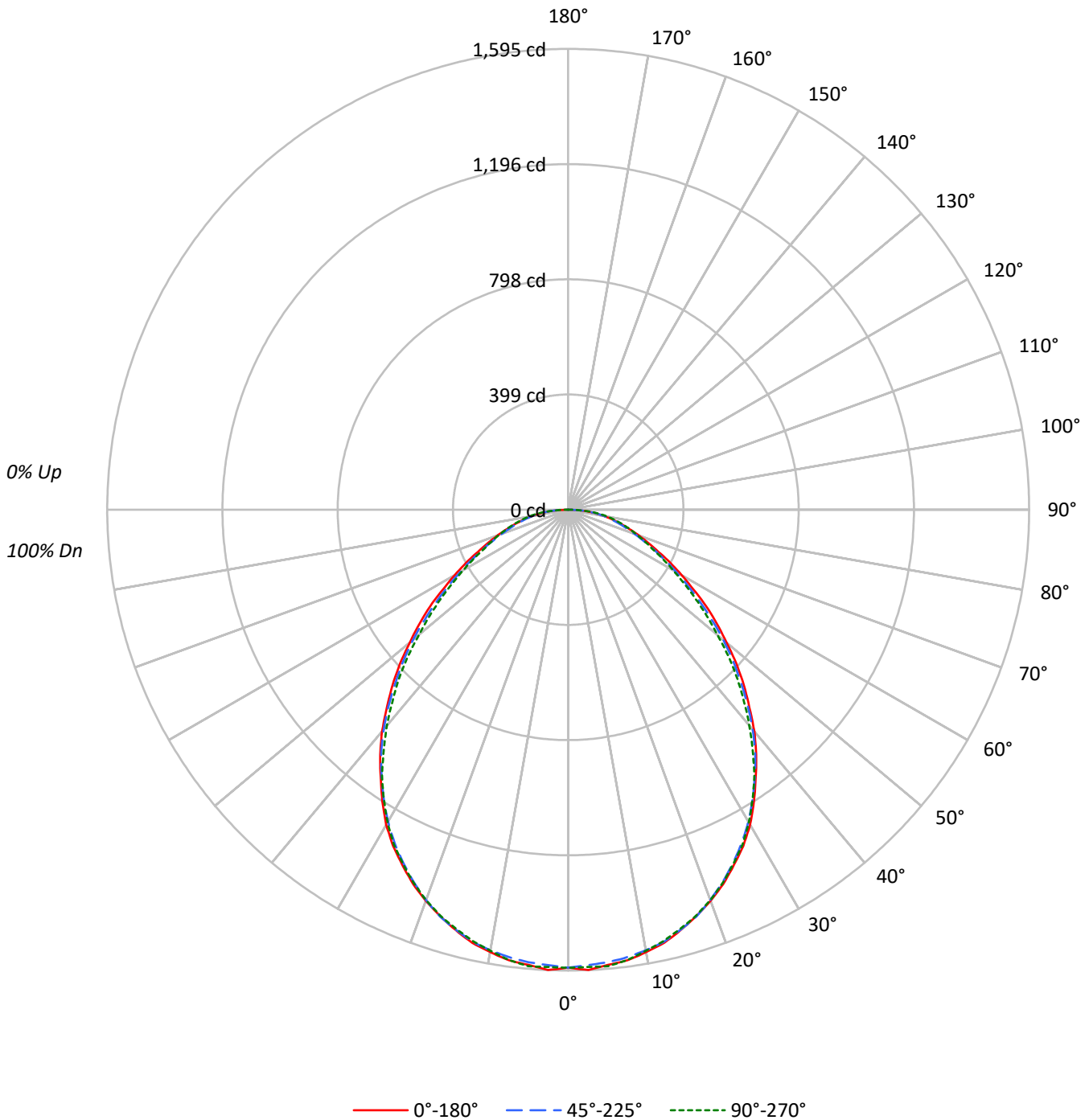
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2133	2133	2133
5°	2136	2123	2142
10°	2124	2115	2117
15°	2098	2096	2090
20°	2063	2058	2058
25°	2015	2003	2008
30°	1956	1936	1942
35°	1858	1849	1844
40°	1760	1744	1713
45°	1635	1607	1575
50°	1498	1465	1410
55°	1368	1306	1262
60°	1219	1161	1130
65°	1097	1040	1025
70°	1018	956	995
75°	974	931	1010
80°	974	974	1079
85°	1011	1022	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	4.1
10°-20°	423.6	11.6
20°-30°	621.7	17.0
30°-40°	702.9	19.3
40°-50°	649.6	17.8
50°-60°	500.5	13.7
60°-70°	331.4	9.1
70°-80°	197.3	5.4
80°-90°	72.3	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°	1195.0	32.7
0°-40°	1897.9	52.0
0°-60°	3048.0	83.5
0°-90°	3649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1581	1581	1572	1573	1586	150
15°	1506	1503	1504	1504	1501	424
25°	1357	1353	1350	1348	1352	625
35°	1131	1130	1126	1121	1123	708
45°	860	854	844	829	828	662
55°	583	571	557	542	538	520
65°	345	339	327	324	322	346
75°	187	183	179	187	194	200
85°	66	62	66	73	74	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.0	1585.0	1585.0	1585.0	1585.0
2.5°	1594.8	1586.5	1577.5	1577.5	1584.3
5°	1581.3	1581.3	1572.2	1573.0	1585.8
7.5°	1573.0	1568.5	1562.5	1562.5	1572.2
10°	1554.9	1551.2	1548.2	1546.7	1549.7
12.5°	1535.4	1529.3	1531.6	1529.3	1528.6
15°	1506.0	1503.0	1504.5	1503.8	1500.7
17.5°	1474.4	1472.9	1475.9	1470.6	1472.9
20°	1440.5	1436.0	1437.5	1434.5	1437.5
22.5°	1402.1	1399.1	1395.4	1391.6	1397.6
25°	1357.0	1353.2	1349.5	1348.0	1352.5
27.5°	1311.8	1305.8	1300.5	1299.0	1305.8
30°	1259.2	1252.4	1246.4	1244.9	1250.1
32.5°	1196.7	1195.2	1187.7	1184.6	1186.9
35°	1131.2	1129.7	1125.9	1120.7	1122.9
37.5°	1068.7	1068.0	1062.7	1053.7	1047.7
40°	1001.8	996.5	992.7	979.9	975.4
42.5°	928.0	926.5	919.7	905.4	900.1
45°	859.5	853.5	844.5	829.4	827.9
47.5°	788.8	780.5	772.2	753.4	752.6
50°	715.8	709.7	699.9	681.1	673.6
52.5°	648.0	639.7	626.2	608.1	604.4
55°	583.3	571.2	556.9	541.9	538.1
57.5°	514.0	508.8	491.5	479.4	474.9
60°	453.1	448.6	431.3	420.0	420.0
62.5°	398.1	391.4	376.3	368.8	368.8
65°	344.7	339.4	326.6	323.6	322.1
67.5°	298.8	292.0	283.0	282.2	286.0
70°	258.9	250.6	243.1	250.6	252.9
72.5°	221.3	216.0	209.2	219.0	223.5
75°	187.4	182.9	179.1	187.4	194.2
77.5°	156.5	152.0	152.0	161.1	167.1
80°	125.7	122.7	125.7	133.2	139.2
82.5°	96.3	94.1	97.8	105.4	109.1
85°	65.5	61.7	66.2	73.0	73.8
87.5°	30.9	30.1	33.1	37.6	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)