

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: P292968

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292968
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-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: 3595.0 lumens
Efficiency: N/A
Efficacy: 152.8 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

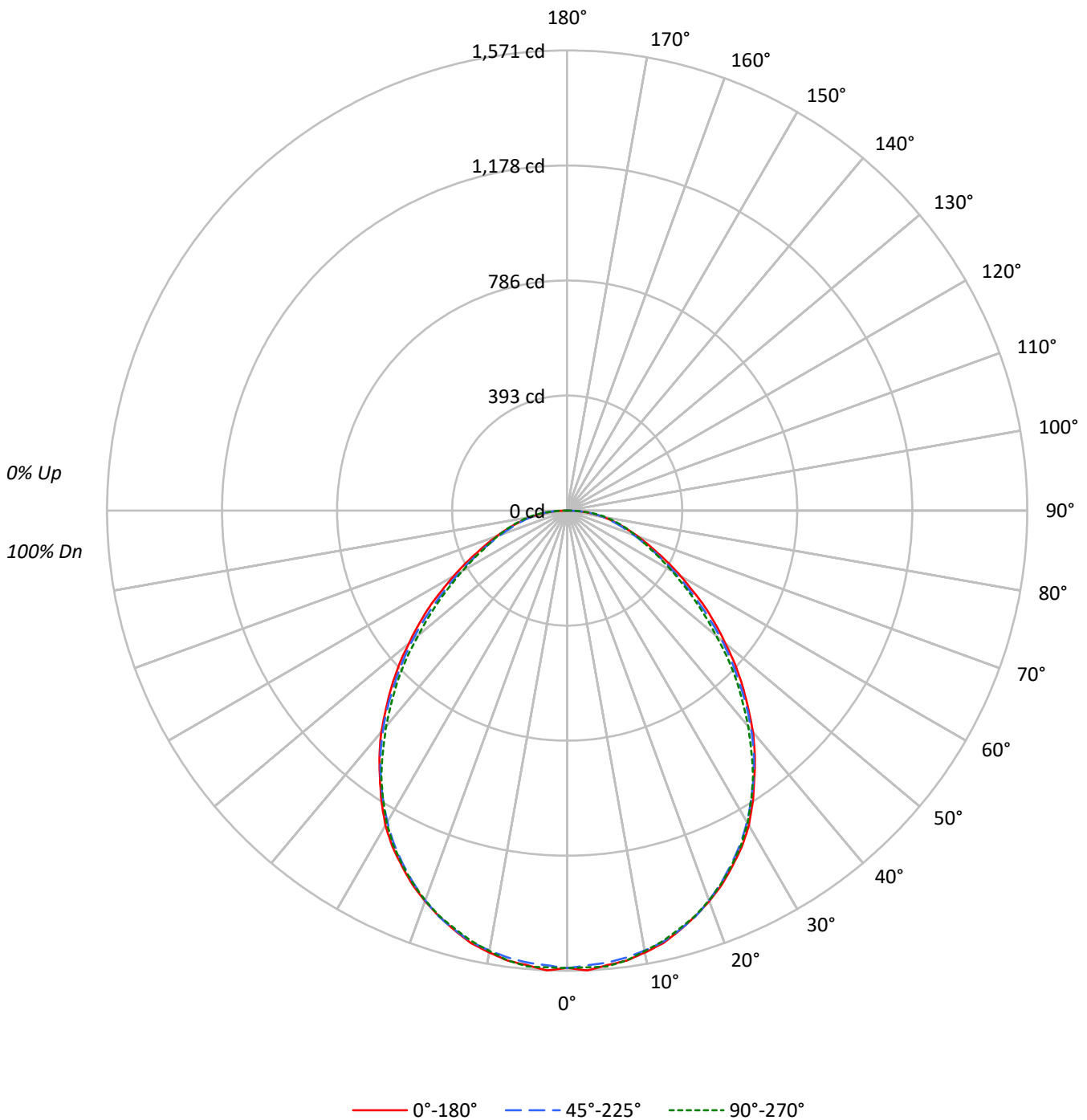
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2101	2101	2101
5°	2104	2092	2110
10°	2093	2084	2086
15°	2067	2065	2059
20°	2032	2028	2028
25°	1985	1974	1978
30°	1927	1908	1913
35°	1831	1822	1817
40°	1733	1718	1688
45°	1611	1583	1552
50°	1476	1443	1389
55°	1348	1287	1244
60°	1201	1143	1114
65°	1081	1025	1011
70°	1004	942	980
75°	960	918	994
80°	959	959	1063
85°	996	1008	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	4.1
10°-20°	417.3	11.6
20°-30°	612.5	17.0
30°-40°	692.5	19.3
40°-50°	640.0	17.8
50°-60°	493.1	13.7
60°-70°	326.5	9.1
70°-80°	194.4	5.4
80°-90°	71.2	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°	1177.3	32.7
0°-40°	1869.8	52.0
0°-60°	3002.9	83.5
0°-90°	3595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1558	1558	1549	1550	1562	148
15°	1484	1481	1482	1482	1478	418
25°	1337	1333	1330	1328	1332	616
35°	1114	1113	1109	1104	1106	697
45°	847	841	832	817	816	652
55°	575	563	549	534	530	513
65°	340	334	322	319	317	340
75°	185	180	176	185	191	197
85°	64	61	65	72	73	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1571.2	1563.1	1554.2	1554.2	1560.8
5°	1557.9	1557.9	1549.0	1549.7	1562.3
7.5°	1549.7	1545.3	1539.3	1539.3	1549.0
10°	1531.9	1528.2	1525.2	1523.8	1526.7
12.5°	1512.6	1506.7	1508.9	1506.7	1506.0
15°	1483.7	1480.8	1482.2	1481.5	1478.5
17.5°	1452.6	1451.1	1454.1	1448.9	1451.1
20°	1419.2	1414.8	1416.3	1413.3	1416.3
22.5°	1381.4	1378.4	1374.7	1371.0	1377.0
25°	1336.9	1333.2	1329.5	1328.0	1332.5
27.5°	1292.4	1286.5	1281.3	1279.8	1286.5
30°	1240.5	1233.8	1227.9	1226.4	1231.6
32.5°	1179.0	1177.5	1170.1	1167.1	1169.3
35°	1114.5	1113.0	1109.3	1104.1	1106.3
37.5°	1052.9	1052.2	1047.0	1038.1	1032.2
40°	986.9	981.7	978.0	965.4	961.0
42.5°	914.3	912.8	906.1	892.0	886.8
45°	846.8	840.9	832.0	817.1	815.6
47.5°	777.1	768.9	760.8	742.2	741.5
50°	705.2	699.2	689.6	671.1	663.6
52.5°	638.4	630.3	616.9	599.1	595.4
55°	574.7	562.8	548.7	533.9	530.2
57.5°	506.4	501.2	484.2	472.3	467.9
60°	446.4	441.9	424.9	413.8	413.8
62.5°	392.2	385.6	370.7	363.3	363.3
65°	339.6	334.4	321.8	318.8	317.4
67.5°	294.4	287.7	278.8	278.1	281.8
70°	255.1	246.9	239.5	246.9	249.1
72.5°	218.0	212.8	206.1	215.8	220.2
75°	184.6	180.2	176.5	184.6	191.3
77.5°	154.2	149.8	149.8	158.7	164.6
80°	123.8	120.9	123.8	131.2	137.2
82.5°	94.9	92.7	96.4	103.8	107.5
85°	64.5	60.8	65.3	71.9	72.7
87.5°	30.4	29.7	32.6	37.1	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)