

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: P293727

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3656.0 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

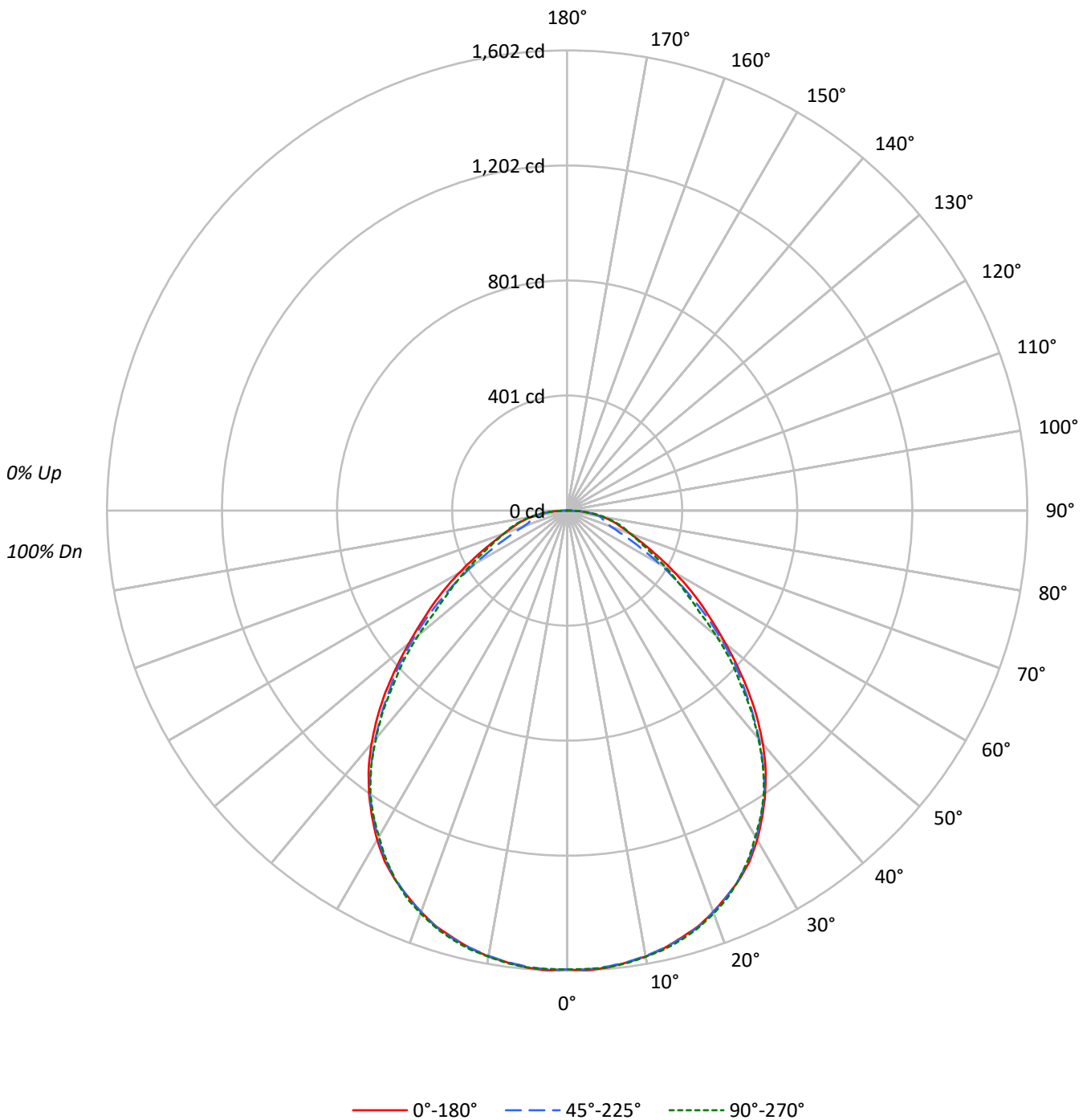
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2149	2149	2149
5°	2157	2152	2156
10°	2154	2151	2155
15°	2143	2148	2153
20°	2129	2129	2137
25°	2105	2101	2102
30°	2056	2045	2035
35°	1975	1969	1962
40°	1860	1826	1818
45°	1702	1655	1625
50°	1504	1474	1417
55°	1338	1247	1199
60°	1165	998	1070
65°	1006	774	946
70°	918	633	915
75°	925	682	973
80°	963	888	1025
85°	1003	1056	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	4.1
10°-20°	434.6	11.9
20°-30°	650.6	17.8
30°-40°	743.4	20.3
40°-50°	672.1	18.4
50°-60°	483.5	13.2
60°-70°	280.3	7.7
70°-80°	166.3	4.5
80°-90°	73.7	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°	1236.7	33.8
0°-40°	1980.1	54.2
0°-60°	3135.8	85.8
0°-90°	3656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1597	1595	1594	1591	1596	152
15°	1539	1542	1542	1540	1546	434
25°	1418	1416	1415	1412	1416	652
35°	1202	1197	1199	1184	1194	750
45°	894	879	870	862	854	687
55°	570	560	532	518	511	510
65°	316	281	243	272	297	319
75°	178	149	131	162	187	188
85°	65	70	68	79	74	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.5	1597.5	1597.5	1597.5	1597.5
2.5°	1602.1	1596.4	1599.3	1597.5	1597.0
5°	1597.0	1594.7	1593.6	1591.3	1596.4
7.5°	1586.7	1585.0	1585.6	1586.1	1589.6
10°	1576.4	1573.6	1574.2	1575.3	1577.0
12.5°	1560.5	1558.8	1559.3	1560.5	1564.5
15°	1538.8	1541.7	1541.7	1539.9	1545.6
17.5°	1517.1	1516.6	1519.4	1514.3	1522.3
20°	1486.9	1487.5	1486.9	1487.5	1492.6
22.5°	1452.7	1455.5	1453.8	1453.8	1459.5
25°	1417.9	1416.2	1415.0	1412.2	1416.2
27.5°	1376.2	1372.8	1370.0	1364.3	1367.1
30°	1323.2	1323.8	1316.4	1311.2	1310.1
32.5°	1263.9	1263.9	1257.0	1253.1	1256.5
35°	1202.3	1196.6	1198.9	1184.0	1194.3
37.5°	1135.6	1126.4	1121.3	1116.2	1119.6
40°	1059.1	1047.2	1039.7	1029.5	1035.2
42.5°	978.7	963.9	954.8	947.3	949.6
45°	894.3	878.9	869.8	861.8	853.8
47.5°	805.3	795.6	791.1	780.8	771.7
50°	718.6	715.2	704.4	695.8	677.0
52.5°	639.4	636.5	619.4	605.1	581.2
55°	570.3	559.5	531.6	517.9	511.0
57.5°	500.2	482.5	448.9	447.2	451.7
60°	432.9	411.2	370.7	379.9	397.5
62.5°	371.9	339.4	300.6	322.2	343.3
65°	316.0	280.6	243.0	271.5	297.2
67.5°	269.8	234.4	195.6	233.8	263.5
70°	233.3	197.3	160.8	204.8	232.7
72.5°	203.0	170.5	140.3	181.9	211.0
75°	177.9	148.9	131.2	162.0	187.1
77.5°	152.9	129.5	125.5	144.3	159.7
80°	124.3	113.5	114.6	126.6	132.3
82.5°	93.0	93.5	96.4	106.1	103.8
85°	65.0	70.2	68.4	78.7	73.6
87.5°	35.9	39.4	37.1	45.1	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)