

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: P293723

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293723
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3553.0 lumens
Efficiency: N/A
Efficacy: 151.6 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

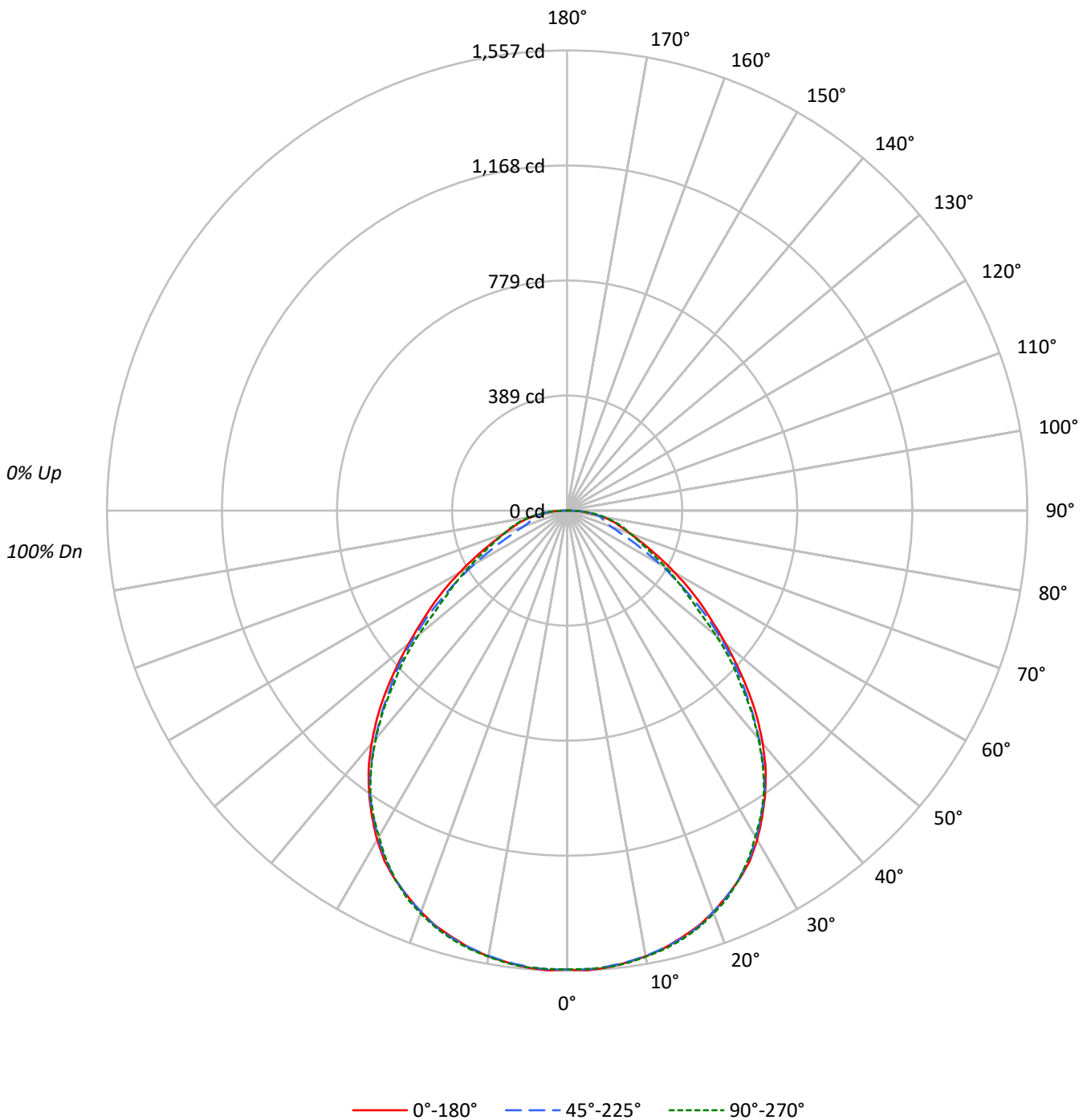
Input Watts (W): 23.436
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2089	2089	2089
5°	2096	2092	2095
10°	2093	2090	2094
15°	2083	2087	2092
20°	2069	2069	2077
25°	2046	2042	2043
30°	1998	1988	1978
35°	1919	1914	1906
40°	1808	1775	1767
45°	1654	1608	1579
50°	1462	1433	1377
55°	1300	1212	1165
60°	1132	970	1040
65°	978	752	919
70°	892	615	889
75°	899	663	945
80°	936	863	996
85°	976	1027	1104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	4.1
10°-20°	422.4	11.9
20°-30°	632.2	17.8
30°-40°	722.5	20.3
40°-50°	653.2	18.4
50°-60°	469.9	13.2
60°-70°	272.4	7.7
70°-80°	161.6	4.5
80°-90°	71.6	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°	1201.9	33.8
0°-40°	1924.3	54.2
0°-60°	3047.4	85.8
0°-90°	3553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1550	1549	1546	1551	147
15°	1495	1498	1498	1497	1502	422
25°	1378	1376	1375	1372	1376	633
35°	1168	1163	1165	1151	1161	728
45°	869	854	845	838	830	668
55°	554	544	517	503	497	496
65°	307	273	236	264	289	310
75°	173	145	128	157	182	183
85°	63	68	66	76	72	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	1557.0	1551.4	1554.2	1552.5	1552.0
5°	1552.0	1549.8	1548.7	1546.4	1551.4
7.5°	1542.0	1540.3	1540.9	1541.5	1544.8
10°	1532.0	1529.3	1529.8	1530.9	1532.6
12.5°	1516.5	1514.8	1515.4	1516.5	1520.4
15°	1495.4	1498.2	1498.2	1496.6	1502.1
17.5°	1474.4	1473.8	1476.6	1471.6	1479.4
20°	1445.0	1445.6	1445.0	1445.6	1450.6
22.5°	1411.8	1414.5	1412.9	1412.9	1418.4
25°	1377.9	1376.3	1375.2	1372.4	1376.3
27.5°	1337.5	1334.2	1331.4	1325.8	1328.6
30°	1285.9	1286.5	1279.3	1274.3	1273.2
32.5°	1228.3	1228.3	1221.6	1217.8	1221.1
35°	1168.4	1162.9	1165.1	1150.7	1160.7
37.5°	1103.6	1094.7	1089.7	1084.7	1088.1
40°	1029.3	1017.7	1010.5	1000.5	1006.0
42.5°	951.1	936.7	927.9	920.7	922.9
45°	869.1	854.1	845.3	837.5	829.8
47.5°	782.6	773.2	768.8	758.8	749.9
50°	698.4	695.1	684.5	676.2	657.9
52.5°	621.3	618.6	601.9	588.1	564.8
55°	554.3	543.7	516.6	503.3	496.6
57.5°	486.1	468.9	436.2	434.6	439.0
60°	420.7	399.6	360.3	369.2	386.3
62.5°	361.4	329.8	292.1	313.2	333.7
65°	307.1	272.7	236.1	263.8	288.8
67.5°	262.2	227.8	190.1	227.3	256.1
70°	226.7	191.8	156.3	199.0	226.1
72.5°	197.3	165.7	136.4	176.8	205.1
75°	172.9	144.7	127.5	157.4	181.8
77.5°	148.5	125.8	121.9	140.2	155.2
80°	120.8	110.3	111.4	123.1	128.6
82.5°	90.3	90.9	93.7	103.1	100.9
85°	63.2	68.2	66.5	76.5	71.5
87.5°	34.9	38.2	36.0	43.8	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)