

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: P293725

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293725
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637.0 lumens
Efficiency: N/A
Efficacy: 154.0 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

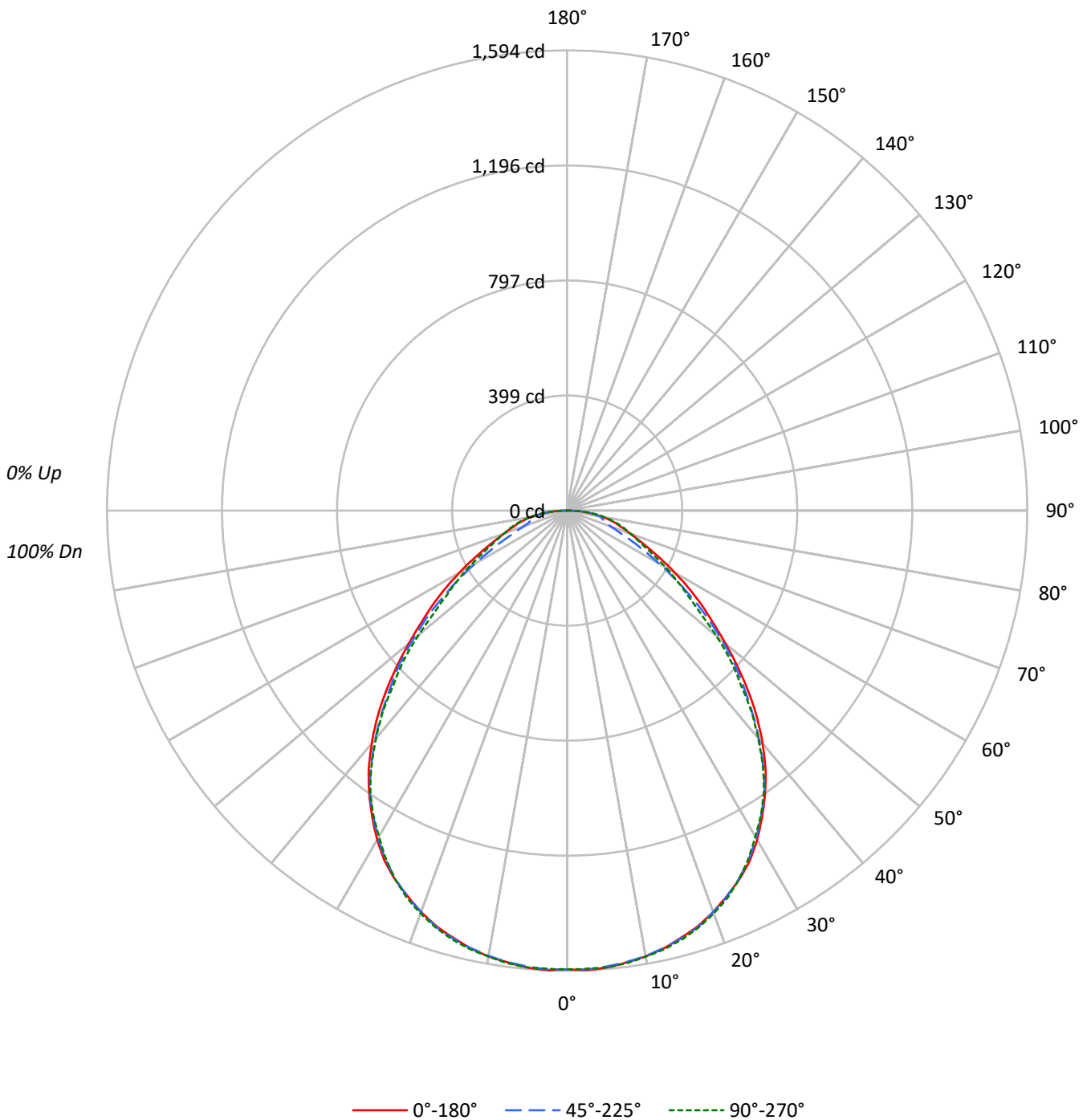
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2138	2138	2138
5°	2146	2141	2145
10°	2143	2140	2143
15°	2132	2136	2142
20°	2118	2118	2126
25°	2094	2090	2091
30°	2045	2034	2025
35°	1964	1959	1952
40°	1851	1817	1809
45°	1693	1647	1616
50°	1496	1467	1410
55°	1331	1240	1193
60°	1159	992	1064
65°	1001	770	941
70°	913	629	911
75°	920	678	967
80°	958	883	1020
85°	999	1051	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	4.1
10°-20°	432.4	11.9
20°-30°	647.2	17.8
30°-40°	739.5	20.3
40°-50°	668.6	18.4
50°-60°	481.0	13.2
60°-70°	278.9	7.7
70°-80°	165.4	4.5
80°-90°	73.3	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°	1230.3	33.8
0°-40°	1969.8	54.2
0°-60°	3119.4	85.8
0°-90°	3637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1589	1586	1585	1583	1588	151
15°	1531	1534	1534	1532	1538	432
25°	1410	1409	1408	1405	1409	648
35°	1196	1190	1193	1178	1188	746
45°	890	874	865	857	849	683
55°	567	557	529	515	508	508
65°	314	279	242	270	296	317
75°	177	148	130	161	186	187
85°	65	70	68	78	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.2	1589.2	1589.2	1589.2	1589.2
2.5°	1593.8	1588.1	1590.9	1589.2	1588.7
5°	1588.7	1586.4	1585.3	1583.0	1588.1
7.5°	1578.5	1576.8	1577.3	1577.9	1581.3
10°	1568.2	1565.4	1566.0	1567.1	1568.8
12.5°	1552.4	1550.7	1551.2	1552.4	1556.3
15°	1530.8	1533.6	1533.6	1531.9	1537.6
17.5°	1509.2	1508.7	1511.5	1506.4	1514.3
20°	1479.2	1479.7	1479.2	1479.7	1484.8
22.5°	1445.1	1448.0	1446.3	1446.3	1451.9
25°	1410.5	1408.8	1407.7	1404.8	1408.8
27.5°	1369.1	1365.7	1362.9	1357.2	1360.0
30°	1316.3	1316.9	1309.5	1304.4	1303.3
32.5°	1257.3	1257.3	1250.5	1246.5	1249.9
35°	1196.0	1190.4	1192.6	1177.9	1188.1
37.5°	1129.7	1120.6	1115.5	1110.4	1113.8
40°	1053.6	1041.7	1034.3	1024.1	1029.8
42.5°	973.6	958.9	949.8	942.4	944.7
45°	889.7	874.3	865.3	857.3	849.4
47.5°	801.1	791.5	787.0	776.7	767.7
50°	714.9	711.5	700.7	692.2	673.5
52.5°	636.0	633.2	616.2	602.0	578.2
55°	567.4	556.6	528.8	515.2	508.4
57.5°	497.6	480.0	446.5	444.8	449.4
60°	430.6	409.1	368.8	377.9	395.5
62.5°	369.9	337.6	299.0	320.6	341.6
65°	314.3	279.2	241.7	270.1	295.6
67.5°	268.4	233.2	194.6	232.6	262.1
70°	232.1	196.3	160.0	203.7	231.5
72.5°	202.0	169.6	139.6	181.0	209.9
75°	177.0	148.1	130.5	161.1	186.1
77.5°	152.1	128.8	124.8	143.5	158.9
80°	123.7	112.9	114.0	126.0	131.6
82.5°	92.5	93.1	95.9	105.5	103.3
85°	64.7	69.8	68.1	78.3	73.2
87.5°	35.7	39.1	36.9	44.8	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)