

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: P293851

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293851
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3283.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

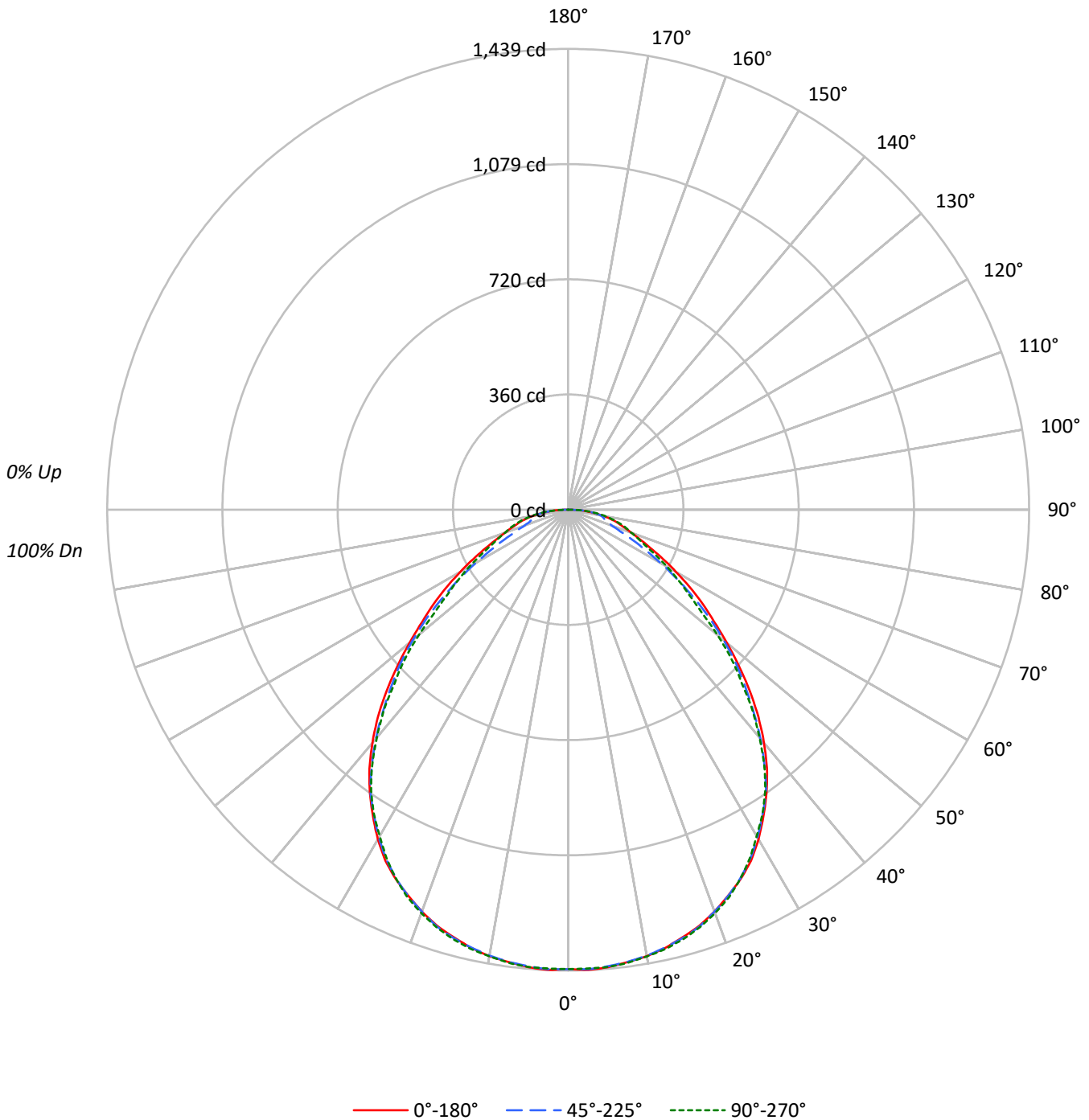
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1930	1930	1930
5°	1937	1933	1936
10°	1934	1931	1935
15°	1925	1928	1933
20°	1912	1912	1919
25°	1890	1886	1888
30°	1846	1837	1828
35°	1773	1768	1762
40°	1671	1640	1633
45°	1528	1486	1459
50°	1351	1324	1272
55°	1202	1120	1076
60°	1046	896	961
65°	903	695	849
70°	824	568	822
75°	831	612	873
80°	865	797	921
85°	902	949	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	4.1
10°-20°	390.3	11.9
20°-30°	584.2	17.8
30°-40°	667.5	20.3
40°-50°	603.5	18.4
50°-60°	434.2	13.2
60°-70°	251.7	7.7
70°-80°	149.3	4.5
80°-90°	66.1	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°	1110.6	33.8
0°-40°	1778.1	54.2
0°-60°	2815.8	85.8
0°-90°	3283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1434	1432	1431	1429	1434	136
15°	1382	1384	1384	1383	1388	390
25°	1273	1272	1271	1268	1272	585
35°	1080	1074	1077	1063	1072	673
45°	803	789	781	774	767	617
55°	512	502	477	465	459	458
65°	284	252	218	244	267	286
75°	160	134	118	146	168	169
85°	58	63	62	71	66	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1438.7	1433.5	1436.1	1434.6	1434.0
5°	1434.0	1432.0	1431.0	1428.9	1433.5
7.5°	1424.8	1423.3	1423.8	1424.3	1427.4
10°	1415.6	1413.0	1413.6	1414.6	1416.1
12.5°	1401.3	1399.7	1400.2	1401.3	1404.9
15°	1381.8	1384.4	1384.4	1382.8	1388.0
17.5°	1362.3	1361.8	1364.4	1359.8	1367.0
20°	1335.2	1335.7	1335.2	1335.7	1340.3
22.5°	1304.5	1307.0	1305.5	1305.5	1310.6
25°	1273.2	1271.7	1270.7	1268.1	1271.7
27.5°	1235.8	1232.8	1230.2	1225.1	1227.6
30°	1188.2	1188.7	1182.1	1177.5	1176.4
32.5°	1134.9	1134.9	1128.8	1125.2	1128.3
35°	1079.6	1074.5	1076.6	1063.2	1072.5
37.5°	1019.7	1011.5	1006.9	1002.3	1005.4
40°	951.1	940.3	933.7	924.4	929.6
42.5°	878.9	865.5	857.4	850.7	852.7
45°	803.1	789.2	781.0	773.9	766.7
47.5°	723.2	714.5	710.4	701.1	693.0
50°	645.3	642.2	632.5	624.8	607.9
52.5°	574.1	571.6	556.2	543.4	521.9
55°	512.2	502.4	477.3	465.0	458.9
57.5°	449.2	433.3	403.1	401.5	405.6
60°	388.7	369.3	332.9	341.1	357.0
62.5°	333.9	304.7	269.9	289.4	308.3
65°	283.7	252.0	218.2	243.8	266.8
67.5°	242.3	210.5	175.7	210.0	236.6
70°	209.5	177.2	144.4	183.9	209.0
72.5°	182.3	153.1	126.0	163.4	189.5
75°	159.8	133.7	117.8	145.5	168.0
77.5°	137.3	116.3	112.7	129.6	143.4
80°	111.7	101.9	102.9	113.7	118.8
82.5°	83.5	84.0	86.6	95.3	93.2
85°	58.4	63.0	61.5	70.7	66.1
87.5°	32.3	35.3	33.3	40.5	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)