

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: P293721

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293721
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 148.1 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

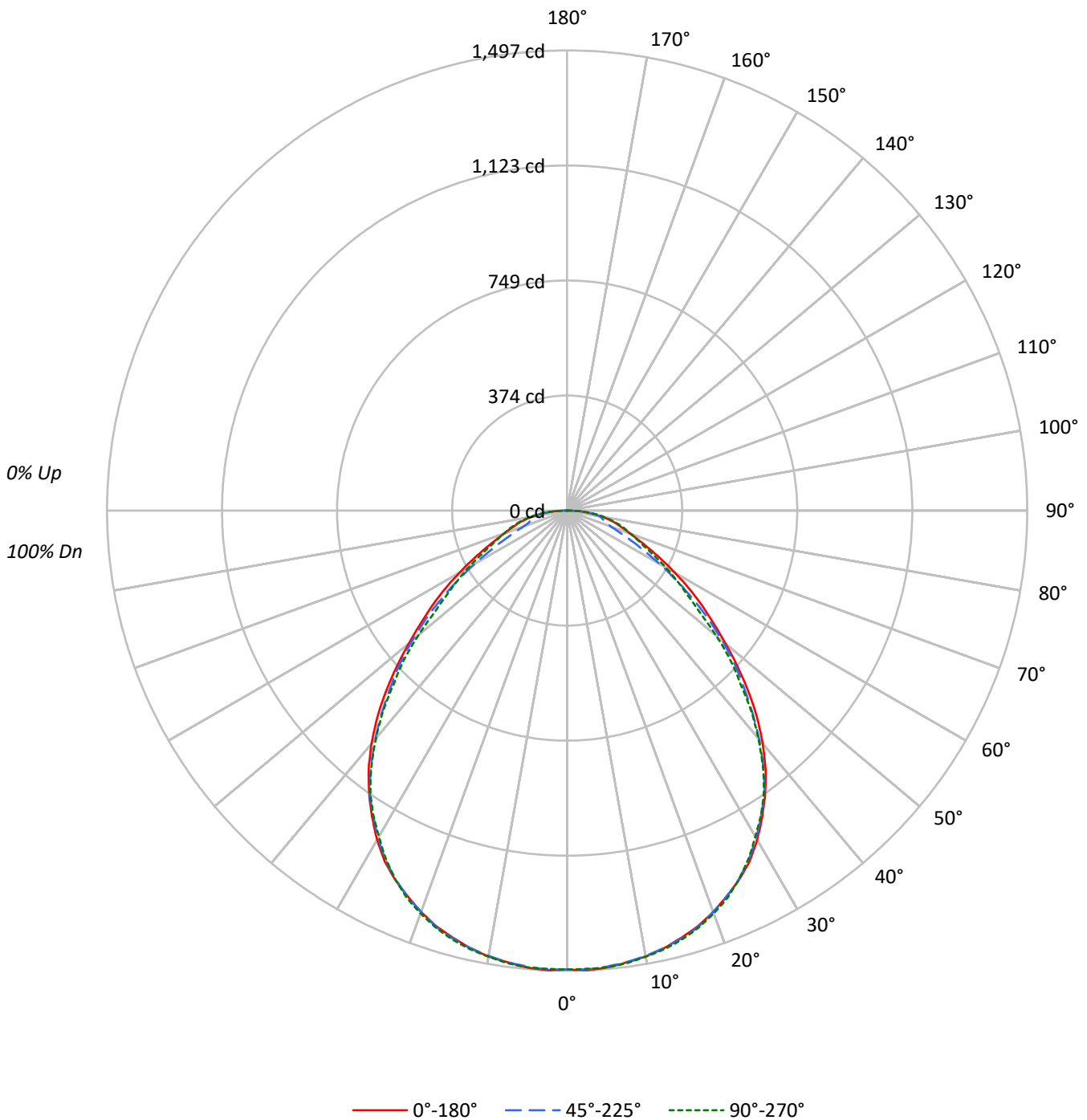
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2008	2008	2008
5°	2015	2011	2015
10°	2012	2009	2013
15°	2003	2006	2012
20°	1989	1989	1997
25°	1967	1963	1964
30°	1921	1911	1902
35°	1845	1840	1833
40°	1738	1706	1699
45°	1590	1546	1518
50°	1406	1378	1324
55°	1250	1165	1120
60°	1089	932	999
65°	940	723	884
70°	858	591	855
75°	865	637	909
80°	900	830	958
85°	939	986	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	4.1
10°-20°	406.1	11.9
20°-30°	607.9	17.8
30°-40°	694.6	20.3
40°-50°	628.0	18.4
50°-60°	451.8	13.2
60°-70°	261.9	7.7
70°-80°	155.4	4.5
80°-90°	68.8	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°	1155.5	33.8
0°-40°	1850.1	54.2
0°-60°	2929.9	85.8
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1492	1490	1489	1487	1492	142
15°	1438	1440	1440	1439	1444	406
25°	1325	1323	1322	1320	1323	609
35°	1123	1118	1120	1106	1116	700
45°	836	821	813	805	798	642
55°	533	523	497	484	478	477
65°	295	262	227	254	278	298
75°	166	139	123	151	175	176
85°	61	66	64	74	69	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.7	1492.7	1492.7	1492.7	1492.7
2.5°	1496.9	1491.6	1494.3	1492.7	1492.1
5°	1492.1	1490.0	1488.9	1486.8	1491.6
7.5°	1482.5	1480.9	1481.5	1482.0	1485.2
10°	1473.0	1470.3	1470.8	1471.9	1473.5
12.5°	1458.0	1456.4	1457.0	1458.0	1461.8
15°	1437.8	1440.4	1440.4	1438.8	1444.2
17.5°	1417.5	1417.0	1419.7	1414.9	1422.3
20°	1389.3	1389.8	1389.3	1389.8	1394.6
22.5°	1357.3	1360.0	1358.4	1358.4	1363.7
25°	1324.8	1323.2	1322.1	1319.5	1323.2
27.5°	1285.9	1282.7	1280.0	1274.7	1277.4
30°	1236.3	1236.9	1229.9	1225.2	1224.1
32.5°	1180.9	1180.9	1174.5	1170.8	1174.0
35°	1123.4	1118.0	1120.2	1106.3	1115.9
37.5°	1061.0	1052.5	1047.7	1042.9	1046.1
40°	989.6	978.4	971.5	961.9	967.2
42.5°	914.5	900.6	892.1	885.2	887.3
45°	835.6	821.2	812.7	805.2	797.8
47.5°	752.5	743.4	739.1	729.6	721.0
50°	671.5	668.3	658.1	650.1	632.6
52.5°	597.4	594.7	578.7	565.4	543.0
55°	532.9	522.8	496.7	483.9	477.5
57.5°	467.4	450.8	419.4	417.8	422.1
60°	404.5	384.2	346.4	354.9	371.4
62.5°	347.5	317.1	280.8	301.1	320.8
65°	295.2	262.2	227.0	253.7	277.6
67.5°	252.1	219.0	182.8	218.5	246.2
70°	218.0	184.4	150.3	191.3	217.4
72.5°	189.7	159.3	131.1	170.0	197.2
75°	166.3	139.1	122.6	151.3	174.8
77.5°	142.8	121.0	117.2	134.8	149.2
80°	116.2	106.0	107.1	118.3	123.6
82.5°	86.9	87.4	90.1	99.1	97.0
85°	60.8	65.5	63.9	73.5	68.7
87.5°	33.6	36.8	34.6	42.1	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)