

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: P293348

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

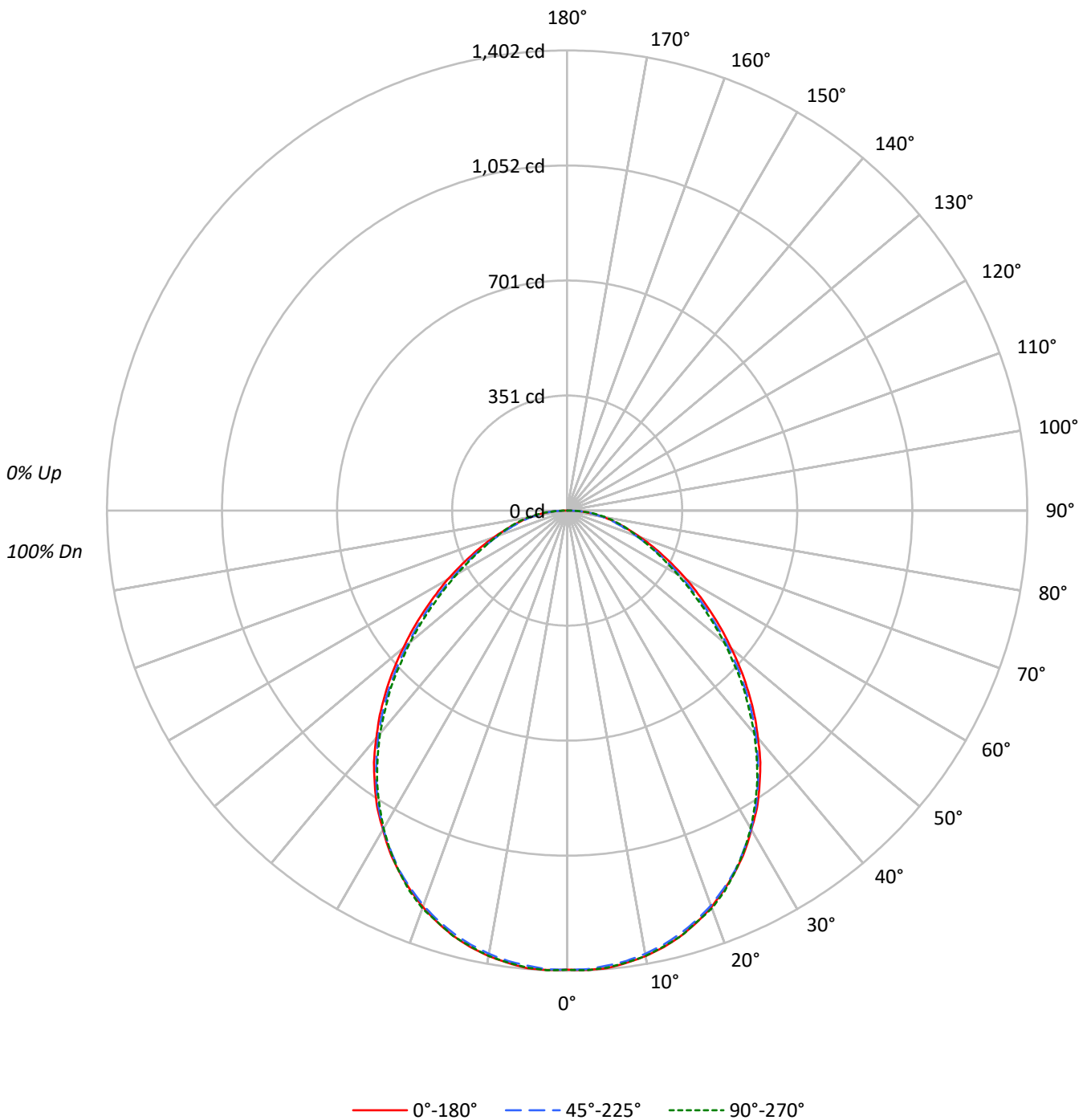
Input Watts (W): 23.715
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1882	1882	1882
5°	1890	1880	1888
10°	1883	1874	1882
15°	1868	1858	1869
20°	1841	1833	1847
25°	1801	1796	1800
30°	1744	1741	1737
35°	1678	1665	1659
40°	1588	1570	1558
45°	1486	1459	1441
50°	1365	1329	1306
55°	1245	1199	1164
60°	1131	1070	1042
65°	1019	961	945
70°	933	872	897
75°	872	832	893
80°	865	849	933
85°	881	889	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.0
10°-20°	376.3	11.4
20°-30°	556.0	16.9
30°-40°	632.1	19.2
40°-50°	590.3	17.9
50°-60°	459.0	13.9
60°-70°	304.6	9.3
70°-80°	176.3	5.4
80°-90°	64.1	1.9
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°	1064.7	32.4
0°-40°	1696.8	51.6
0°-60°	2746.1	83.4
0°-90°	3291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1400	1392	1392	1395	1398	133
15°	1341	1334	1334	1333	1342	378
25°	1213	1208	1210	1207	1212	558
35°	1022	1016	1014	1007	1010	638
45°	781	775	766	757	757	602
55°	531	523	511	498	496	476
65°	320	310	302	296	297	320
75°	168	164	160	167	172	179
85°	57	56	58	65	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1400.7	1396.6	1398.7	1397.1	1401.8
5°	1399.7	1392.5	1392.0	1394.6	1397.6
7.5°	1389.9	1382.2	1383.8	1383.8	1388.9
10°	1378.1	1370.4	1371.4	1371.9	1377.6
12.5°	1362.2	1354.4	1354.9	1354.4	1360.1
15°	1341.1	1334.4	1333.9	1333.3	1342.1
17.5°	1315.3	1306.1	1309.2	1309.7	1314.3
20°	1285.5	1278.3	1280.4	1279.8	1289.6
22.5°	1250.0	1244.9	1246.4	1245.4	1254.6
25°	1213.0	1207.8	1209.9	1207.3	1212.5
27.5°	1171.3	1167.7	1165.6	1164.1	1167.7
30°	1122.4	1120.4	1120.4	1113.7	1117.8
32.5°	1076.1	1069.5	1069.5	1066.9	1064.3
35°	1021.6	1016.5	1013.9	1006.7	1009.8
37.5°	967.1	955.3	954.2	948.6	948.6
40°	904.3	897.6	894.0	887.9	886.8
42.5°	844.7	838.0	831.8	821.5	819.5
45°	780.9	774.7	766.5	756.7	757.2
47.5°	717.6	708.9	701.1	689.3	687.8
50°	652.3	646.1	634.8	624.5	624.0
52.5°	591.1	581.3	571.0	558.6	558.6
55°	530.9	523.2	511.3	497.9	496.4
57.5°	473.3	466.1	452.7	442.9	440.3
60°	420.3	410.0	397.6	389.4	387.3
62.5°	367.3	358.0	348.8	340.5	340.0
65°	320.0	310.2	302.0	296.3	296.8
67.5°	277.3	269.0	259.8	258.2	258.7
70°	237.1	228.4	221.7	225.3	227.9
72.5°	199.1	194.4	189.8	195.0	198.6
75°	167.7	163.6	160.0	167.2	171.8
77.5°	138.9	135.8	135.3	141.5	145.6
80°	111.6	108.0	109.6	116.8	120.4
82.5°	84.9	82.3	82.8	91.6	94.1
85°	57.1	56.1	57.6	65.3	65.8
87.5°	30.4	30.4	31.4	36.0	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)