

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: P293863

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293863
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-LD5-42-A125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

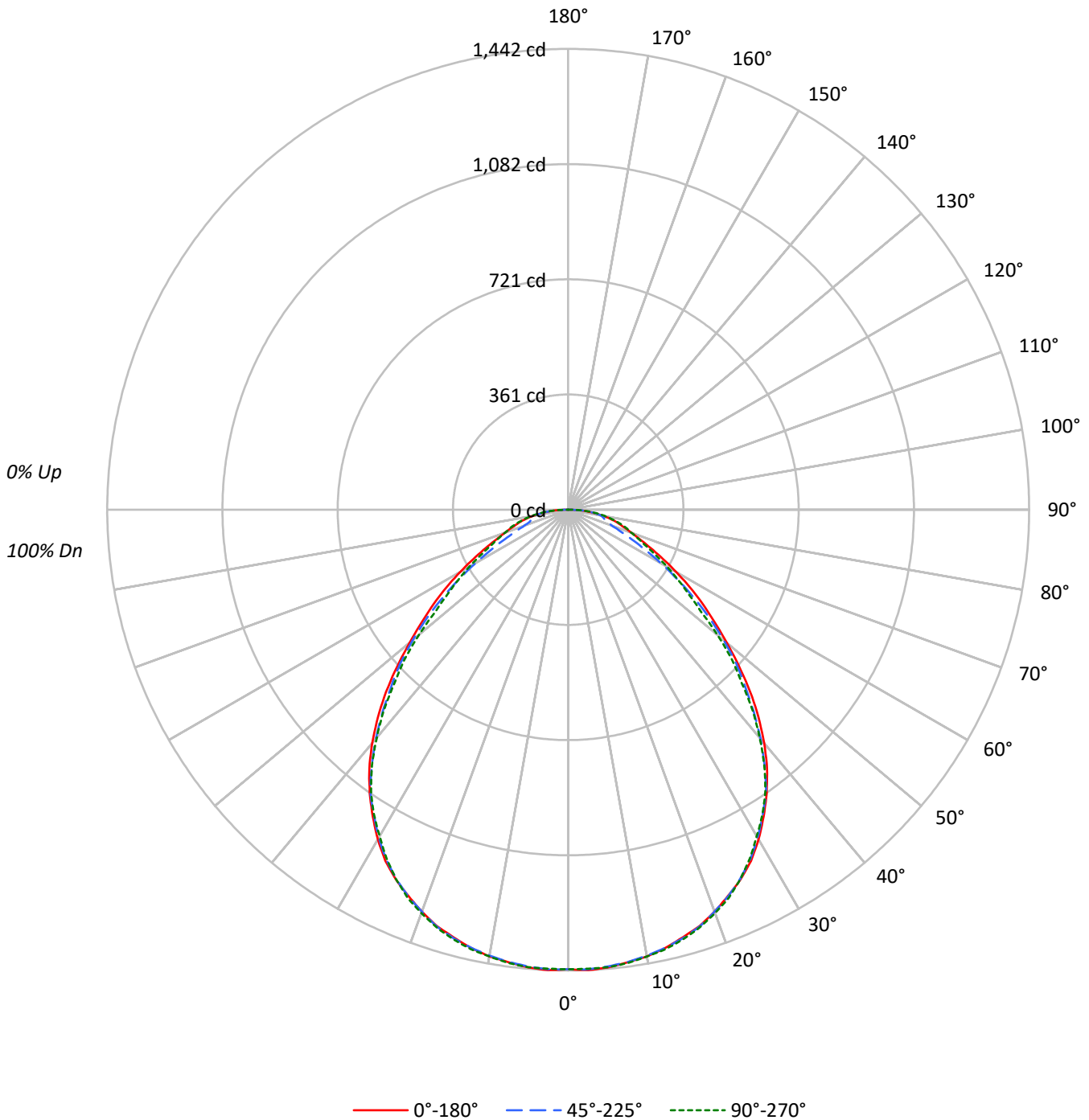
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1935	1935	1935
5°	1942	1937	1941
10°	1939	1936	1940
15°	1930	1933	1938
20°	1917	1917	1924
25°	1895	1891	1893
30°	1851	1841	1832
35°	1778	1773	1766
40°	1675	1644	1637
45°	1532	1490	1462
50°	1354	1327	1276
55°	1204	1122	1079
60°	1049	898	963
65°	905	696	852
70°	826	570	824
75°	833	614	875
80°	867	800	923
85°	903	951	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	4.1
10°-20°	391.2	11.9
20°-30°	585.6	17.8
30°-40°	669.2	20.3
40°-50°	605.0	18.4
50°-60°	435.3	13.2
60°-70°	252.3	7.7
70°-80°	149.7	4.5
80°-90°	66.3	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°	1113.3	33.8
0°-40°	1782.4	54.2
0°-60°	2822.7	85.8
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°	1438	1438	1438	1438	1438	
5°	1438	1436	1434	1432	1437	137
15°	1385	1388	1388	1386	1391	391
25°	1276	1275	1274	1271	1275	587
35°	1082	1077	1079	1066	1075	675
45°	805	791	783	776	769	618
55°	513	504	478	466	460	459
65°	284	253	219	244	268	287
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°	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1442.2	1437.0	1439.6	1438.1	1437.5
5°	1437.5	1435.5	1434.5	1432.4	1437.0
7.5°	1428.3	1426.8	1427.3	1427.8	1430.9
10°	1419.1	1416.5	1417.0	1418.0	1419.6
12.5°	1404.7	1403.1	1403.7	1404.7	1408.3
15°	1385.2	1387.7	1387.7	1386.2	1391.3
17.5°	1365.7	1365.1	1367.7	1363.1	1370.3
20°	1338.5	1339.0	1338.5	1339.0	1343.6
22.5°	1307.6	1310.2	1308.7	1308.7	1313.8
25°	1276.3	1274.8	1273.8	1271.2	1274.8
27.5°	1238.9	1235.8	1233.2	1228.1	1230.6
30°	1191.1	1191.6	1184.9	1180.3	1179.3
32.5°	1137.7	1137.7	1131.5	1128.0	1131.0
35°	1082.3	1077.1	1079.2	1065.8	1075.1
37.5°	1022.2	1014.0	1009.4	1004.7	1007.8
40°	953.4	942.6	935.9	926.7	931.8
42.5°	881.0	867.7	859.4	852.8	854.8
45°	805.0	791.2	782.9	775.8	768.6
47.5°	724.9	716.2	712.1	702.9	694.6
50°	646.9	643.8	634.1	626.4	609.4
52.5°	575.5	573.0	557.6	544.7	523.2
55°	513.4	503.7	478.5	466.2	460.0
57.5°	450.3	434.3	404.1	402.5	406.6
60°	389.7	370.2	333.7	341.9	357.8
62.5°	334.7	305.5	270.6	290.1	309.1
65°	284.4	252.6	218.7	244.4	267.5
67.5°	242.8	211.0	176.1	210.5	237.2
70°	210.0	177.6	144.8	184.3	209.5
72.5°	182.8	153.5	126.3	163.8	190.0
75°	160.2	134.0	118.1	145.8	168.4
77.5°	137.6	116.5	112.9	129.9	143.8
80°	111.9	102.2	103.2	114.0	119.1
82.5°	83.7	84.2	86.8	95.5	93.4
85°	58.5	63.1	61.6	70.9	66.2
87.5°	32.3	35.4	33.4	40.6	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)