

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: P293864

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293864
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

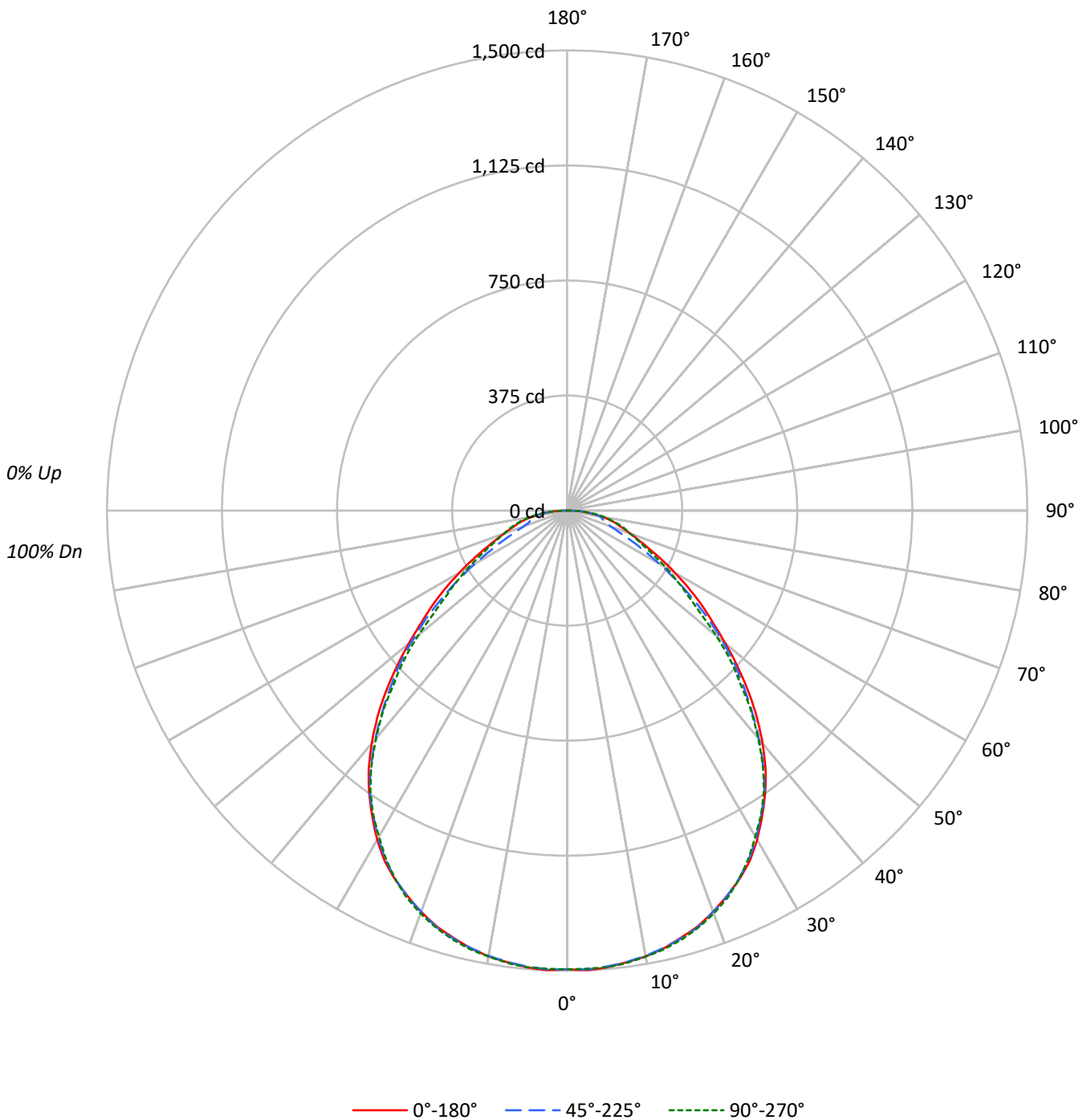
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2012	2012	2012
5°	2019	2015	2018
10°	2016	2013	2017
15°	2006	2010	2015
20°	1993	1993	2000
25°	1970	1966	1968
30°	1924	1914	1905
35°	1848	1843	1836
40°	1741	1709	1702
45°	1593	1549	1521
50°	1408	1380	1326
55°	1252	1167	1122
60°	1090	934	1001
65°	941	724	885
70°	859	592	857
75°	866	638	910
80°	902	831	960
85°	940	990	1064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	4.1
10°-20°	406.8	11.9
20°-30°	608.9	17.8
30°-40°	695.8	20.3
40°-50°	629.1	18.4
50°-60°	452.6	13.2
60°-70°	262.4	7.7
70°-80°	155.6	4.5
80°-90°	68.9	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°	1157.6	33.8
0°-40°	1853.4	54.2
0°-60°	2935.0	85.8
0°-90°	3422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1495	1493	1492	1489	1494	142
15°	1440	1443	1443	1441	1447	407
25°	1327	1326	1324	1322	1326	610
35°	1125	1120	1122	1108	1118	702
45°	837	823	814	807	799	643
55°	534	524	498	485	478	478
65°	296	263	227	254	278	299
75°	167	139	123	152	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°	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1499.6	1494.2	1496.9	1495.3	1494.8
5°	1494.8	1492.6	1491.6	1489.4	1494.2
7.5°	1485.2	1483.6	1484.1	1484.6	1487.8
10°	1475.5	1472.9	1473.4	1474.5	1476.1
12.5°	1460.6	1459.0	1459.5	1460.6	1464.3
15°	1440.3	1443.0	1443.0	1441.4	1446.7
17.5°	1420.0	1419.5	1422.2	1417.4	1424.8
20°	1391.7	1392.3	1391.7	1392.3	1397.1
22.5°	1359.7	1362.4	1360.8	1360.8	1366.1
25°	1327.1	1325.5	1324.5	1321.8	1325.5
27.5°	1288.2	1285.0	1282.3	1277.0	1279.6
30°	1238.5	1239.1	1232.1	1227.3	1226.2
32.5°	1183.0	1183.0	1176.6	1172.9	1176.1
35°	1125.3	1120.0	1122.1	1108.3	1117.9
37.5°	1062.9	1054.3	1049.5	1044.7	1047.9
40°	991.3	980.1	973.2	963.6	968.9
42.5°	916.1	902.2	893.7	886.7	888.8
45°	837.1	822.7	814.1	806.6	799.2
47.5°	753.8	744.7	740.4	730.8	722.3
50°	672.6	669.4	659.3	651.3	633.7
52.5°	598.4	595.8	579.8	566.4	544.0
55°	533.8	523.7	497.5	484.7	478.3
57.5°	468.2	451.6	420.1	418.5	422.8
60°	405.2	384.9	347.0	355.5	372.1
62.5°	348.1	317.6	281.3	301.6	321.4
65°	295.7	262.7	227.4	254.1	278.1
67.5°	252.5	219.4	183.1	218.9	246.6
70°	218.3	184.7	150.5	191.6	217.8
72.5°	190.0	159.6	131.3	170.3	197.5
75°	166.6	139.3	122.8	151.6	175.1
77.5°	143.1	121.2	117.4	135.1	149.5
80°	116.4	106.2	107.3	118.5	123.9
82.5°	87.0	87.6	90.2	99.3	97.2
85°	60.9	65.7	64.1	73.7	68.9
87.5°	33.6	36.8	34.7	42.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)