

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: P293866

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293866
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3709.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

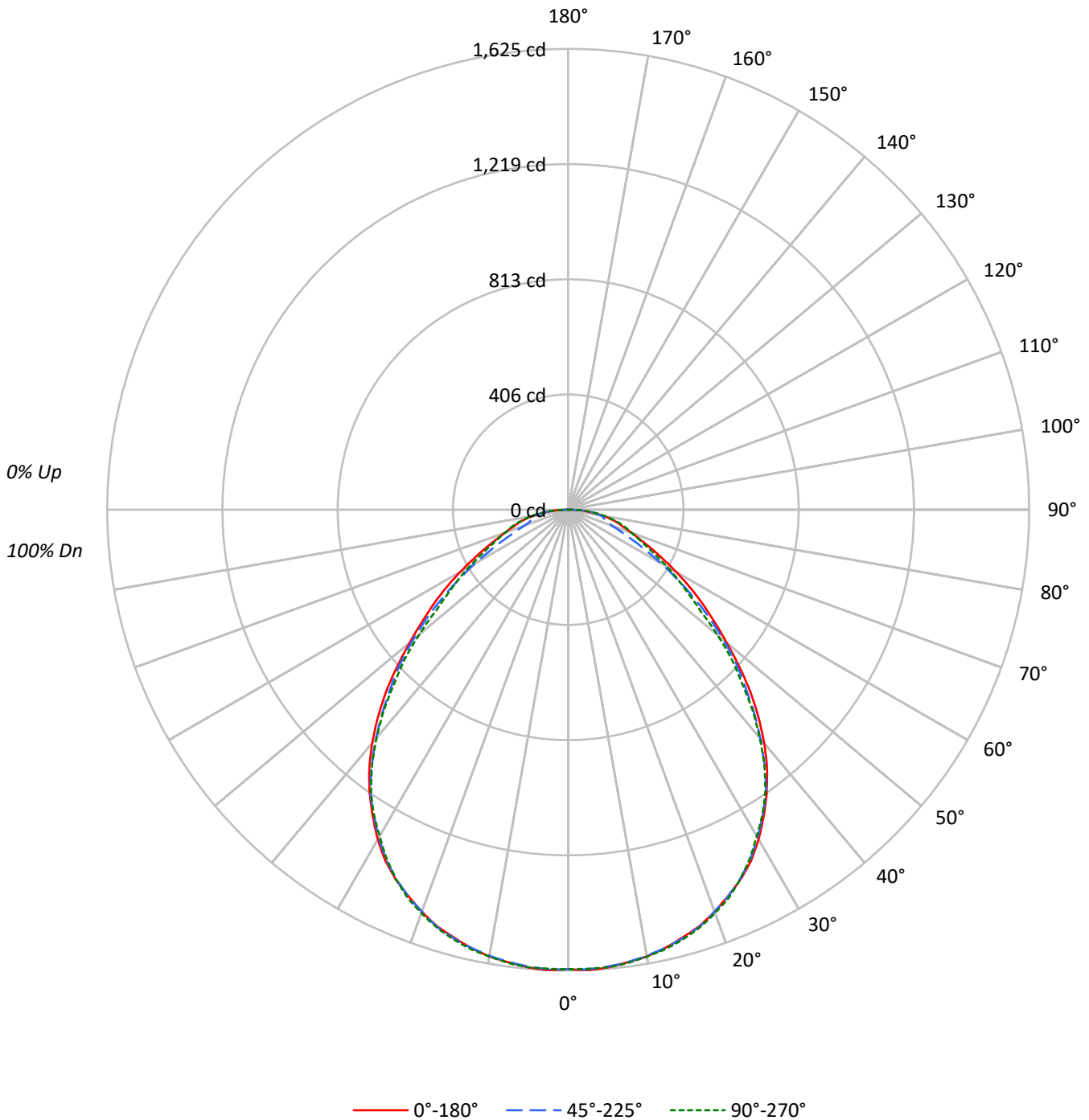
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2181	2181	2181
5°	2188	2184	2187
10°	2185	2182	2186
15°	2175	2179	2184
20°	2160	2160	2168
25°	2135	2131	2133
30°	2086	2075	2065
35°	2003	1998	1990
40°	1887	1853	1845
45°	1726	1679	1648
50°	1526	1496	1438
55°	1357	1265	1216
60°	1182	1012	1085
65°	1021	785	960
70°	931	642	929
75°	938	692	987
80°	977	901	1040
85°	1019	1071	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	4.1
10°-20°	440.9	11.9
20°-30°	660.0	17.8
30°-40°	754.2	20.3
40°-50°	681.8	18.4
50°-60°	490.5	13.2
60°-70°	284.4	7.7
70°-80°	168.7	4.5
80°-90°	74.7	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°	1254.7	33.8
0°-40°	2008.8	54.2
0°-60°	3181.2	85.8
0°-90°	3709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1620	1618	1617	1614	1620	154
15°	1561	1564	1564	1562	1568	441
25°	1438	1437	1436	1433	1437	661
35°	1220	1214	1216	1201	1212	760
45°	907	892	882	874	866	697
55°	579	568	539	525	518	518
65°	321	285	246	275	302	324
75°	180	151	133	164	190	191
85°	66	71	69	80	75	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1625.3	1619.5	1622.4	1620.7	1620.1
5°	1620.1	1617.8	1616.7	1614.3	1619.5
7.5°	1609.7	1608.0	1608.6	1609.1	1612.6
10°	1599.3	1596.4	1597.0	1598.1	1599.9
12.5°	1583.1	1581.4	1581.9	1583.1	1587.1
15°	1561.1	1564.0	1564.0	1562.3	1568.1
17.5°	1539.1	1538.5	1541.4	1536.2	1544.3
20°	1508.5	1509.0	1508.5	1509.0	1514.2
22.5°	1473.7	1476.6	1474.9	1474.9	1480.7
25°	1438.4	1436.7	1435.5	1432.7	1436.7
27.5°	1396.2	1392.7	1389.8	1384.1	1386.9
30°	1342.4	1343.0	1335.4	1330.2	1329.1
32.5°	1282.2	1282.2	1275.3	1271.2	1274.7
35°	1219.7	1213.9	1216.3	1201.2	1211.6
37.5°	1152.0	1142.8	1137.6	1132.4	1135.8
40°	1074.5	1062.3	1054.8	1044.4	1050.2
42.5°	992.9	977.9	968.6	961.1	963.4
45°	907.3	891.6	882.4	874.3	866.2
47.5°	817.0	807.2	802.5	792.1	782.9
50°	729.1	725.6	714.6	705.9	686.8
52.5°	648.6	645.7	628.4	613.9	589.6
55°	578.6	567.6	539.3	525.4	518.4
57.5°	507.4	489.5	455.4	453.6	458.3
60°	439.2	417.2	376.1	385.4	403.3
62.5°	377.3	344.3	304.9	326.9	348.3
65°	320.6	284.7	246.5	275.4	301.5
67.5°	273.7	237.8	198.5	237.2	267.3
70°	236.7	200.2	163.2	207.7	236.1
72.5°	206.0	173.0	142.3	184.6	214.1
75°	180.5	151.0	133.1	164.3	189.8
77.5°	155.1	131.3	127.3	146.4	162.0
80°	126.1	115.1	116.3	128.5	134.2
82.5°	94.3	94.9	97.8	107.6	105.3
85°	66.0	71.2	69.4	79.8	74.6
87.5°	36.5	39.9	37.6	45.7	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)