

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: P293869

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293869
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3942.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

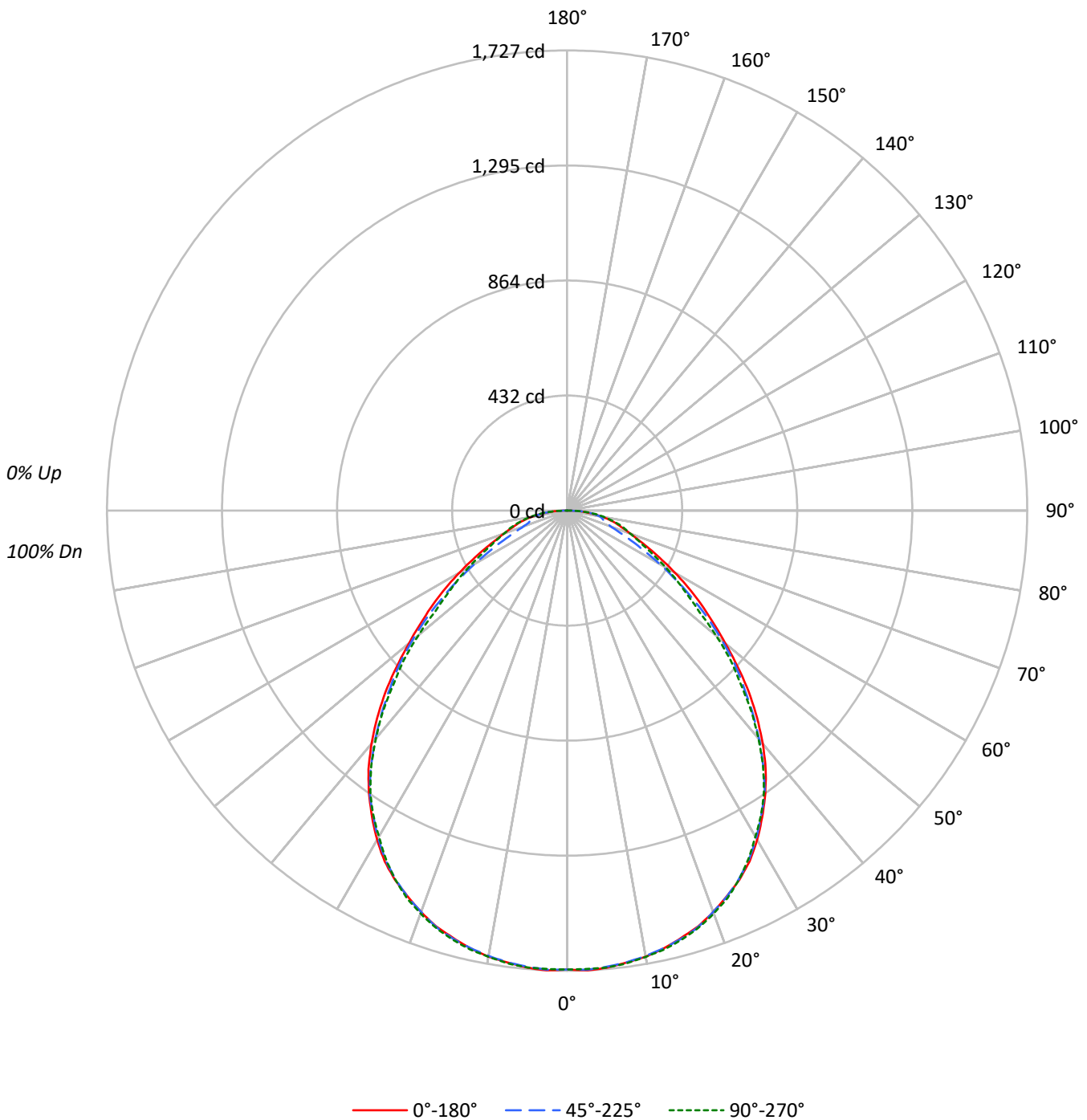
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2318	2318	2318
5°	2326	2321	2325
10°	2322	2319	2323
15°	2311	2316	2321
20°	2296	2296	2304
25°	2270	2265	2267
30°	2217	2205	2195
35°	2129	2123	2115
40°	2006	1969	1961
45°	1835	1784	1752
50°	1622	1590	1528
55°	1443	1344	1293
60°	1256	1076	1153
65°	1085	834	1020
70°	989	682	987
75°	998	735	1049
80°	1039	958	1106
85°	1082	1139	1224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	4.1
10°-20°	468.6	11.9
20°-30°	701.5	17.8
30°-40°	801.5	20.3
40°-50°	724.7	18.4
50°-60°	521.4	13.2
60°-70°	302.3	7.7
70°-80°	179.3	4.5
80°-90°	79.4	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°	1333.5	33.8
0°-40°	2135.0	54.2
0°-60°	3381.1	85.8
0°-90°	3942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1722	1719	1718	1716	1721	164
15°	1659	1662	1662	1660	1667	468
25°	1529	1527	1526	1523	1527	703
35°	1296	1290	1293	1277	1288	808
45°	964	948	938	929	921	741
55°	615	603	573	558	551	550
65°	341	303	262	293	320	344
75°	192	160	141	175	202	203
85°	70	76	74	85	79	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.5	1722.5	1722.5	1722.5	1722.5
2.5°	1727.4	1721.3	1724.4	1722.5	1721.9
5°	1721.9	1719.4	1718.2	1715.8	1721.3
7.5°	1710.8	1709.0	1709.6	1710.2	1713.9
10°	1699.8	1696.7	1697.3	1698.5	1700.4
12.5°	1682.5	1680.7	1681.3	1682.5	1686.8
15°	1659.2	1662.3	1662.3	1660.4	1666.6
17.5°	1635.8	1635.2	1638.3	1632.7	1641.3
20°	1603.2	1603.8	1603.2	1603.8	1609.4
22.5°	1566.3	1569.4	1567.5	1567.5	1573.7
25°	1528.8	1527.0	1525.7	1522.7	1527.0
27.5°	1483.9	1480.2	1477.1	1471.0	1474.1
30°	1426.7	1427.3	1419.3	1413.8	1412.6
32.5°	1362.8	1362.8	1355.4	1351.1	1354.8
35°	1296.3	1290.2	1292.7	1276.7	1287.7
37.5°	1224.4	1214.6	1209.0	1203.5	1207.2
40°	1142.0	1129.1	1121.1	1110.0	1116.2
42.5°	1055.3	1039.3	1029.5	1021.5	1023.9
45°	964.3	947.7	937.8	929.2	920.6
47.5°	868.3	857.9	853.0	841.9	832.0
50°	774.9	771.2	759.5	750.3	730.0
52.5°	689.4	686.3	667.9	652.5	626.6
55°	615.0	603.3	573.1	558.4	551.0
57.5°	539.3	520.3	484.0	482.1	487.1
60°	466.8	443.4	399.7	409.6	428.6
62.5°	401.0	365.9	324.1	347.5	370.2
65°	340.7	302.6	262.0	292.7	320.4
67.5°	290.9	252.8	210.9	252.1	284.1
70°	251.5	212.8	173.4	220.8	250.9
72.5°	218.9	183.9	151.3	196.2	227.5
75°	191.9	160.5	141.4	174.7	201.7
77.5°	164.8	139.6	135.3	155.6	172.2
80°	134.1	122.4	123.6	136.5	142.7
82.5°	100.2	100.9	103.9	114.4	111.9
85°	70.1	75.6	73.8	84.9	79.3
87.5°	38.7	42.4	40.0	48.6	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)