

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: P293234

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293234
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-LD5-42-F125-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3958.0 lumens
Efficiency: N/A
Efficacy: 142.3 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

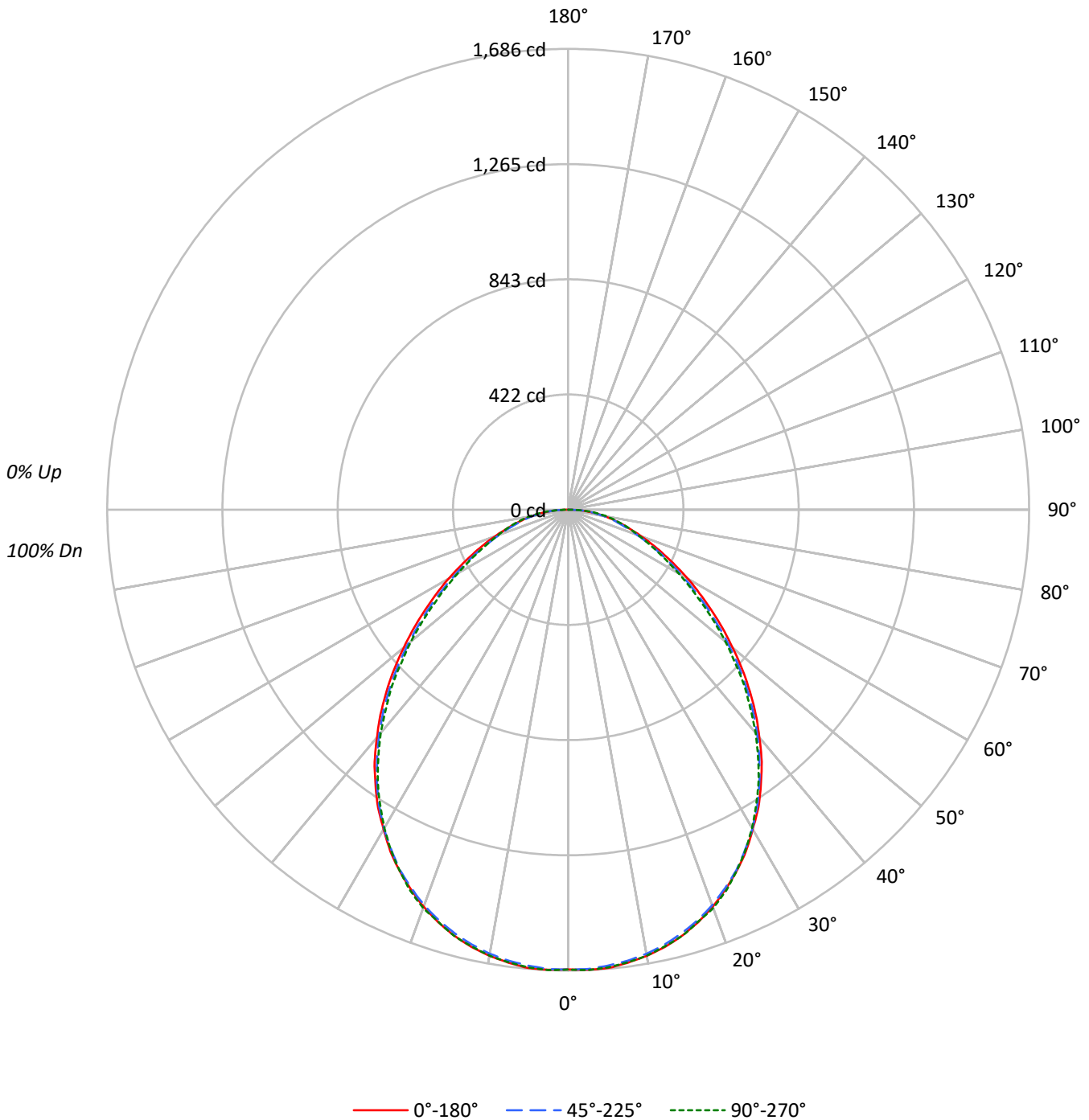
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2263	2263	2263
5°	2274	2261	2270
10°	2264	2253	2264
15°	2247	2235	2248
20°	2214	2205	2221
25°	2166	2160	2165
30°	2097	2094	2089
35°	2018	2003	1995
40°	1910	1888	1873
45°	1787	1754	1733
50°	1642	1598	1571
55°	1498	1443	1400
60°	1360	1287	1254
65°	1225	1156	1137
70°	1122	1049	1078
75°	1049	1000	1074
80°	1041	1021	1122
85°	1061	1070	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	4.0
10°-20°	452.6	11.4
20°-30°	668.6	16.9
30°-40°	760.2	19.2
40°-50°	709.9	17.9
50°-60°	552.1	13.9
60°-70°	366.3	9.3
70°-80°	212.0	5.4
80°-90°	77.1	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°	1280.5	32.4
0°-40°	2040.6	51.6
0°-60°	3302.6	83.4
0°-90°	3958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1683	1675	1674	1677	1681	160
15°	1613	1605	1604	1604	1614	454
25°	1459	1453	1455	1452	1458	671
35°	1229	1222	1219	1211	1214	767
45°	939	932	922	910	911	724
55°	638	629	615	599	597	573
65°	385	373	363	356	357	385
75°	202	197	192	201	207	216
85°	69	67	69	79	79	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.1	1682.1	1682.1	1682.1	1682.1
2.5°	1684.6	1679.7	1682.1	1680.3	1685.9
5°	1683.4	1674.7	1674.1	1677.2	1680.9
7.5°	1671.6	1662.4	1664.2	1664.2	1670.4
10°	1657.4	1648.1	1649.4	1650.0	1656.8
12.5°	1638.2	1628.9	1629.6	1628.9	1635.7
15°	1612.9	1604.8	1604.2	1603.6	1614.1
17.5°	1581.9	1570.8	1574.5	1575.1	1580.7
20°	1546.0	1537.4	1539.9	1539.2	1551.0
22.5°	1503.4	1497.2	1499.0	1497.8	1508.9
25°	1458.8	1452.6	1455.1	1452.0	1458.2
27.5°	1408.7	1404.4	1401.9	1400.0	1404.4
30°	1349.9	1347.5	1347.5	1339.4	1344.4
32.5°	1294.2	1286.2	1286.2	1283.1	1280.0
35°	1228.7	1222.5	1219.4	1210.7	1214.4
37.5°	1163.1	1148.9	1147.6	1140.8	1140.8
40°	1087.6	1079.6	1075.2	1067.8	1066.6
42.5°	1015.8	1007.8	1000.4	988.0	985.5
45°	939.1	931.7	921.8	910.1	910.7
47.5°	863.0	852.5	843.2	829.0	827.2
50°	784.5	777.0	763.4	751.1	750.4
52.5°	710.8	699.1	686.7	671.9	671.9
55°	638.5	629.2	615.0	598.9	597.0
57.5°	569.2	560.5	544.4	532.7	529.6
60°	505.4	493.1	478.2	468.3	465.9
62.5°	441.7	430.6	419.5	409.6	408.9
65°	384.8	373.1	363.2	356.4	357.0
67.5°	333.5	323.6	312.4	310.6	311.2
70°	285.2	274.7	266.6	271.0	274.1
72.5°	239.4	233.9	228.3	234.5	238.8
75°	201.7	196.7	192.4	201.1	206.6
77.5°	167.0	163.3	162.7	170.1	175.1
80°	134.3	129.9	131.8	140.4	144.8
82.5°	102.1	99.0	99.6	110.1	113.2
85°	68.7	67.4	69.3	78.6	79.2
87.5°	36.5	36.5	37.7	43.3	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)