

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: P293111

Luminaire Tested: **24GR-LD5-42-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

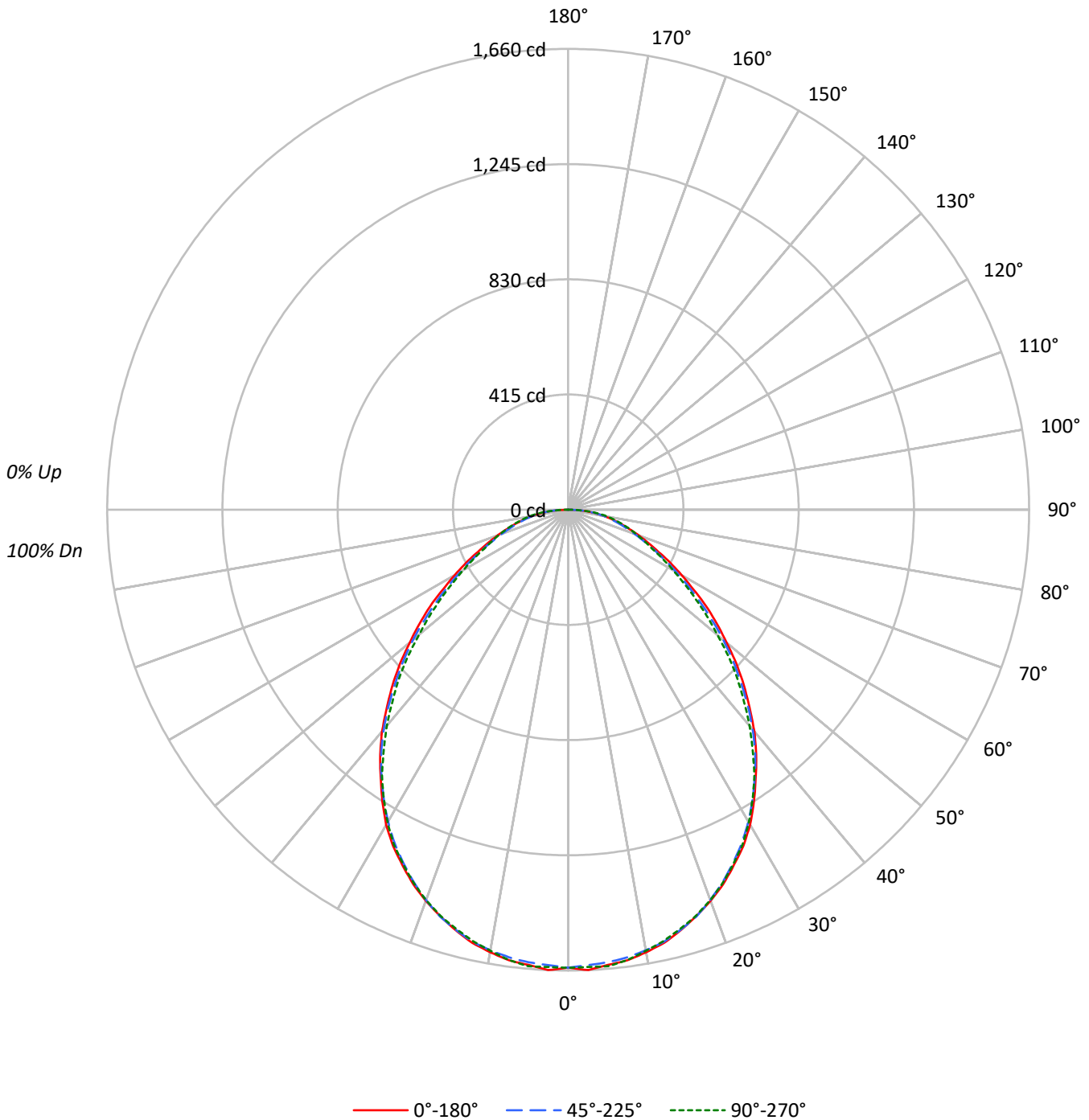
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2220	2220	2220
5°	2223	2210	2229
10°	2211	2202	2204
15°	2183	2181	2176
20°	2147	2142	2142
25°	2097	2085	2090
30°	2036	2015	2022
35°	1934	1925	1920
40°	1831	1815	1783
45°	1702	1672	1640
50°	1559	1525	1468
55°	1424	1360	1314
60°	1269	1208	1176
65°	1142	1082	1067
70°	1060	995	1035
75°	1014	969	1051
80°	1013	1013	1123
85°	1053	1064	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	4.1
10°-20°	440.9	11.6
20°-30°	647.1	17.0
30°-40°	731.6	19.3
40°-50°	676.1	17.8
50°-60°	520.9	13.7
60°-70°	344.9	9.1
70°-80°	205.3	5.4
80°-90°	75.2	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°	1243.8	32.7
0°-40°	1975.4	52.0
0°-60°	3172.5	83.5
0°-90°	3798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1646	1646	1636	1637	1650	156
15°	1568	1564	1566	1565	1562	442
25°	1412	1408	1405	1403	1408	650
35°	1177	1176	1172	1166	1169	737
45°	895	888	879	863	862	689
55°	607	595	580	564	560	542
65°	359	353	340	337	335	360
75°	195	190	186	195	202	208
85°	68	64	69	76	77	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.8	1649.8	1649.8	1649.8	1649.8
2.5°	1659.9	1651.3	1641.9	1641.9	1649.0
5°	1645.8	1645.8	1636.4	1637.2	1650.5
7.5°	1637.2	1632.5	1626.3	1626.3	1636.4
10°	1618.4	1614.5	1611.4	1609.8	1612.9
12.5°	1598.1	1591.8	1594.1	1591.8	1591.0
15°	1567.5	1564.4	1565.9	1565.2	1562.0
17.5°	1534.6	1533.0	1536.2	1530.7	1533.0
20°	1499.4	1494.7	1496.2	1493.1	1496.2
22.5°	1459.4	1456.3	1452.4	1448.4	1454.7
25°	1412.4	1408.5	1404.6	1403.0	1407.7
27.5°	1365.4	1359.1	1353.7	1352.1	1359.1
30°	1310.6	1303.5	1297.2	1295.7	1301.2
32.5°	1245.5	1244.0	1236.1	1233.0	1235.4
35°	1177.4	1175.8	1171.9	1166.4	1168.8
37.5°	1112.4	1111.6	1106.1	1096.7	1090.4
40°	1042.7	1037.2	1033.3	1019.9	1015.2
42.5°	965.9	964.3	957.3	942.4	936.9
45°	894.6	888.3	878.9	863.3	861.7
47.5°	821.0	812.3	803.7	784.1	783.4
50°	745.0	738.7	728.5	708.9	701.1
52.5°	674.5	665.9	651.8	633.0	629.0
55°	607.1	594.6	579.7	564.0	560.1
57.5°	535.0	529.6	511.5	499.0	494.3
60°	471.6	466.9	448.9	437.1	437.1
62.5°	414.4	407.3	391.7	383.8	383.8
65°	358.8	353.3	340.0	336.8	335.3
67.5°	311.0	303.9	294.5	293.8	297.7
70°	269.5	260.9	253.0	260.9	263.2
72.5°	230.3	224.8	217.8	228.0	232.7
75°	195.1	190.4	186.4	195.1	202.1
77.5°	162.9	158.2	158.2	167.6	173.9
80°	130.8	127.7	130.8	138.7	144.9
82.5°	100.3	97.9	101.8	109.7	113.6
85°	68.2	64.2	68.9	76.0	76.8
87.5°	32.1	31.3	34.5	39.2	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)