

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: P292925

Luminaire Tested: **24GR-LD5-42-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292925
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192.0 lumens
Efficiency: N/A
Efficacy: 149.8 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

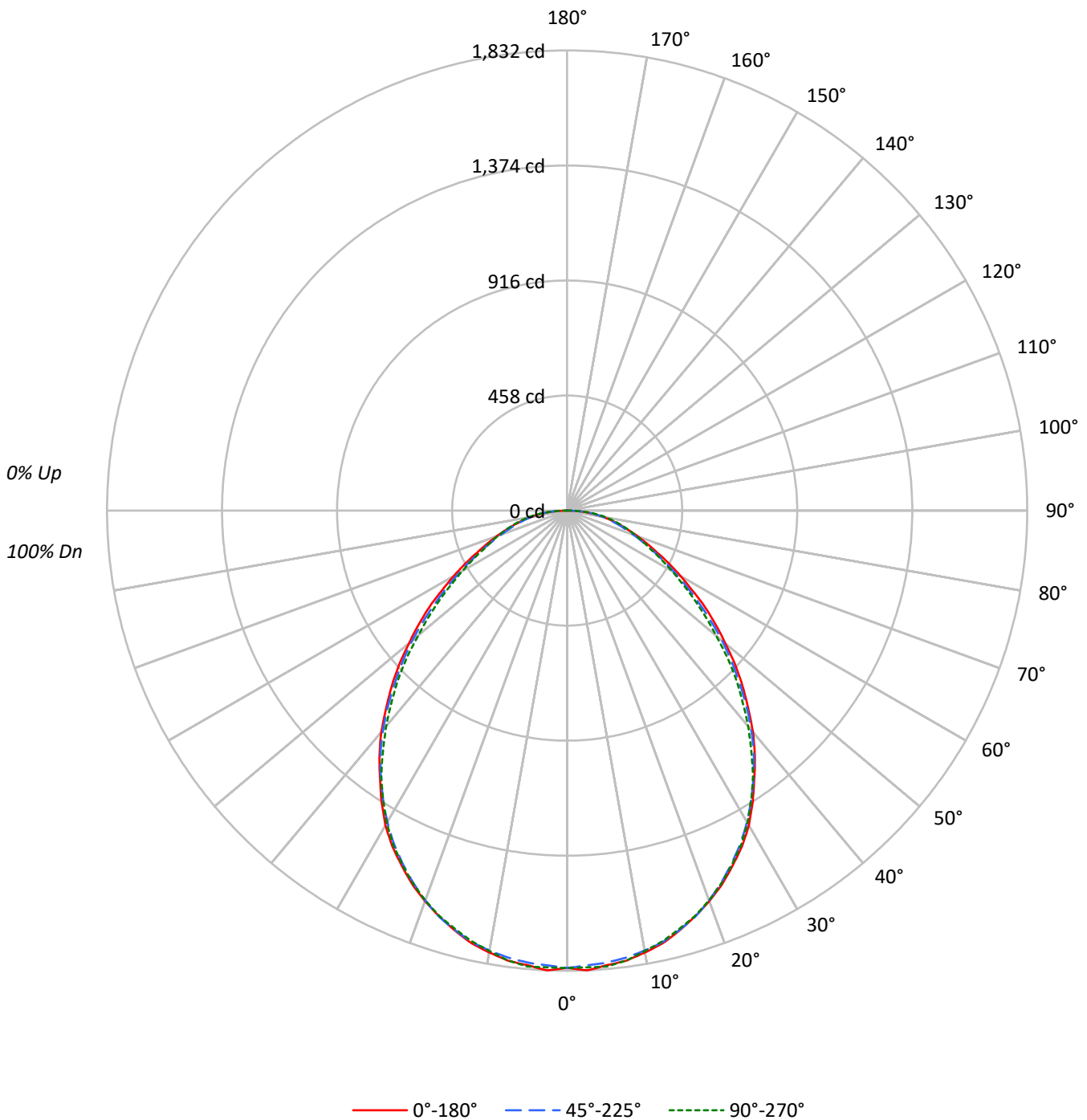
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2450	2450	2450
5°	2454	2440	2461
10°	2441	2430	2432
15°	2410	2408	2402
20°	2370	2365	2365
25°	2314	2302	2307
30°	2247	2224	2231
35°	2134	2125	2119
40°	2021	2003	1968
45°	1879	1846	1810
50°	1721	1683	1620
55°	1572	1501	1450
60°	1401	1333	1298
65°	1261	1195	1178
70°	1170	1099	1143
75°	1119	1070	1160
80°	1119	1119	1240
85°	1161	1175	1308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	4.1
10°-20°	486.6	11.6
20°-30°	714.2	17.0
30°-40°	807.5	19.3
40°-50°	746.3	17.8
50°-60°	575.0	13.7
60°-70°	380.7	9.1
70°-80°	226.7	5.4
80°-90°	83.0	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°	1372.8	32.7
0°-40°	2180.3	52.0
0°-60°	3501.6	83.5
0°-90°	4192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1817	1817	1806	1807	1822	173
15°	1730	1727	1728	1728	1724	488
25°	1559	1555	1550	1548	1554	718
35°	1300	1298	1294	1287	1290	813
45°	987	980	970	953	951	761
55°	670	656	640	622	618	598
65°	396	390	375	372	370	397
75°	215	210	206	215	223	230
85°	75	71	76	84	85	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.9	1820.9	1820.9	1820.9	1820.9
2.5°	1832.1	1822.6	1812.3	1812.3	1820.0
5°	1816.6	1816.6	1806.2	1807.1	1821.8
7.5°	1807.1	1801.9	1795.0	1795.0	1806.2
10°	1786.3	1782.0	1778.5	1776.8	1780.3
12.5°	1763.8	1756.9	1759.5	1756.9	1756.1
15°	1730.1	1726.7	1728.4	1727.5	1724.1
17.5°	1693.8	1692.1	1695.5	1689.5	1692.1
20°	1654.9	1649.7	1651.4	1648.0	1651.4
22.5°	1610.8	1607.3	1603.0	1598.7	1605.6
25°	1558.9	1554.6	1550.3	1548.5	1553.7
27.5°	1507.0	1500.1	1494.1	1492.3	1500.1
30°	1446.5	1438.7	1431.8	1430.1	1436.1
32.5°	1374.8	1373.0	1364.4	1360.9	1363.5
35°	1299.5	1297.8	1293.5	1287.4	1290.0
37.5°	1227.8	1226.9	1220.9	1210.5	1203.6
40°	1150.8	1144.8	1140.4	1125.7	1120.6
42.5°	1066.1	1064.4	1056.6	1040.1	1034.1
45°	987.4	980.5	970.1	952.8	951.1
47.5°	906.1	896.6	887.1	865.5	864.6
50°	822.3	815.3	804.1	782.5	773.8
52.5°	744.4	734.9	719.4	698.6	694.3
55°	670.1	656.3	639.8	622.5	618.2
57.5°	590.5	584.5	564.6	550.8	545.6
60°	520.5	515.3	495.4	482.5	482.5
62.5°	457.4	449.6	432.3	423.7	423.7
65°	396.0	389.9	375.2	371.8	370.1
67.5°	343.3	335.5	325.1	324.2	328.6
70°	297.4	287.9	279.3	287.9	290.5
72.5°	254.2	248.1	240.4	251.6	256.8
75°	215.3	210.1	205.8	215.3	223.1
77.5°	179.8	174.7	174.7	185.0	191.9
80°	144.4	140.9	144.4	153.0	160.0
82.5°	110.7	108.1	112.4	121.0	125.4
85°	75.2	70.9	76.1	83.9	84.7
87.5°	35.4	34.6	38.0	43.2	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)