

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: P292985

Luminaire Tested: **24GR-LD5-42-F1-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292985
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-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4258.0 lumens
Efficiency: N/A
Efficacy: 149.1 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

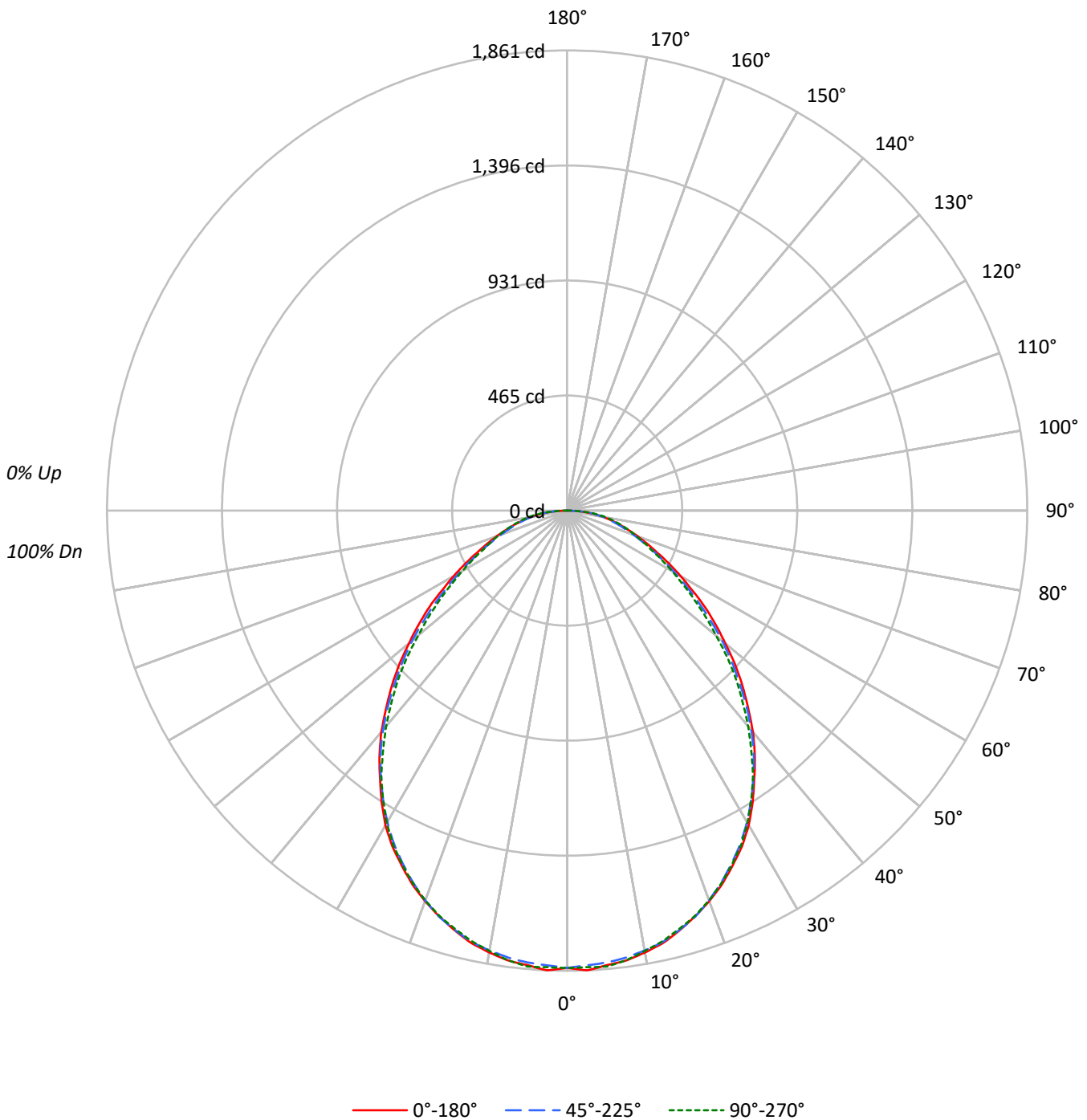
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2489	2489	2489
5°	2492	2478	2499
10°	2479	2468	2471
15°	2448	2445	2439
20°	2407	2402	2402
25°	2351	2338	2343
30°	2283	2260	2266
35°	2168	2158	2152
40°	2053	2035	1999
45°	1909	1875	1838
50°	1748	1710	1645
55°	1597	1525	1473
60°	1423	1354	1319
65°	1280	1214	1197
70°	1188	1116	1161
75°	1137	1087	1178
80°	1137	1137	1259
85°	1179	1193	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	4.1
10°-20°	494.3	11.6
20°-30°	725.5	17.0
30°-40°	820.2	19.3
40°-50°	758.0	17.8
50°-60°	584.0	13.7
60°-70°	386.7	9.1
70°-80°	230.2	5.4
80°-90°	84.3	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°	1394.5	32.7
0°-40°	2214.6	52.0
0°-60°	3556.7	83.5
0°-90°	4258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1845	1845	1835	1836	1850	175
15°	1757	1754	1756	1755	1751	495
25°	1584	1579	1575	1573	1578	729
35°	1320	1318	1314	1308	1310	826
45°	1003	996	985	968	966	773
55°	681	667	650	632	628	607
65°	402	396	381	378	376	403
75°	219	213	209	219	227	233
85°	76	72	77	85	86	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1849.6	1849.6	1849.6	1849.6	1849.6
2.5°	1861.0	1851.3	1840.8	1840.8	1848.7
5°	1845.2	1845.2	1834.6	1835.5	1850.5
7.5°	1835.5	1830.3	1823.2	1823.2	1834.6
10°	1814.4	1810.1	1806.5	1804.8	1808.3
12.5°	1791.6	1784.6	1787.2	1784.6	1783.7
15°	1757.4	1753.8	1755.6	1754.7	1751.2
17.5°	1720.5	1718.7	1722.2	1716.1	1718.7
20°	1681.0	1675.7	1677.4	1673.9	1677.4
22.5°	1636.2	1632.6	1628.3	1623.9	1630.9
25°	1583.5	1579.1	1574.7	1572.9	1578.2
27.5°	1530.8	1523.7	1517.6	1515.8	1523.7
30°	1469.3	1461.4	1454.4	1452.6	1458.8
32.5°	1396.4	1394.6	1385.9	1382.4	1385.0
35°	1320.0	1318.2	1313.8	1307.7	1310.3
37.5°	1247.1	1246.2	1240.1	1229.5	1222.5
40°	1168.9	1162.8	1158.4	1143.5	1138.2
42.5°	1082.9	1081.1	1073.2	1056.5	1050.4
45°	1003.0	995.9	985.4	967.8	966.1
47.5°	920.4	910.7	901.1	879.1	878.2
50°	835.2	828.2	816.8	794.8	786.0
52.5°	756.2	746.5	730.7	709.6	705.2
55°	680.6	666.6	649.9	632.3	627.9
57.5°	599.8	593.7	573.5	559.4	554.2
60°	528.7	523.4	503.2	490.1	490.1
62.5°	464.6	456.7	439.1	430.3	430.3
65°	402.2	396.1	381.2	377.6	375.9
67.5°	348.7	340.8	330.2	329.3	333.7
70°	302.1	292.5	283.7	292.5	295.1
72.5°	258.2	252.1	244.2	255.6	260.8
75°	218.7	213.4	209.0	218.7	226.6
77.5°	182.7	177.4	177.4	187.9	195.0
80°	146.7	143.2	146.7	155.4	162.5
82.5°	112.4	109.8	114.2	123.0	127.3
85°	76.4	72.0	77.3	85.2	86.1
87.5°	36.0	35.1	38.6	43.9	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)