

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: P292979

Luminaire Tested: **24GR-LD5-38-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292979
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-LD5-38-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4012.0 lumens
Efficiency: N/A
Efficacy: 153.5 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

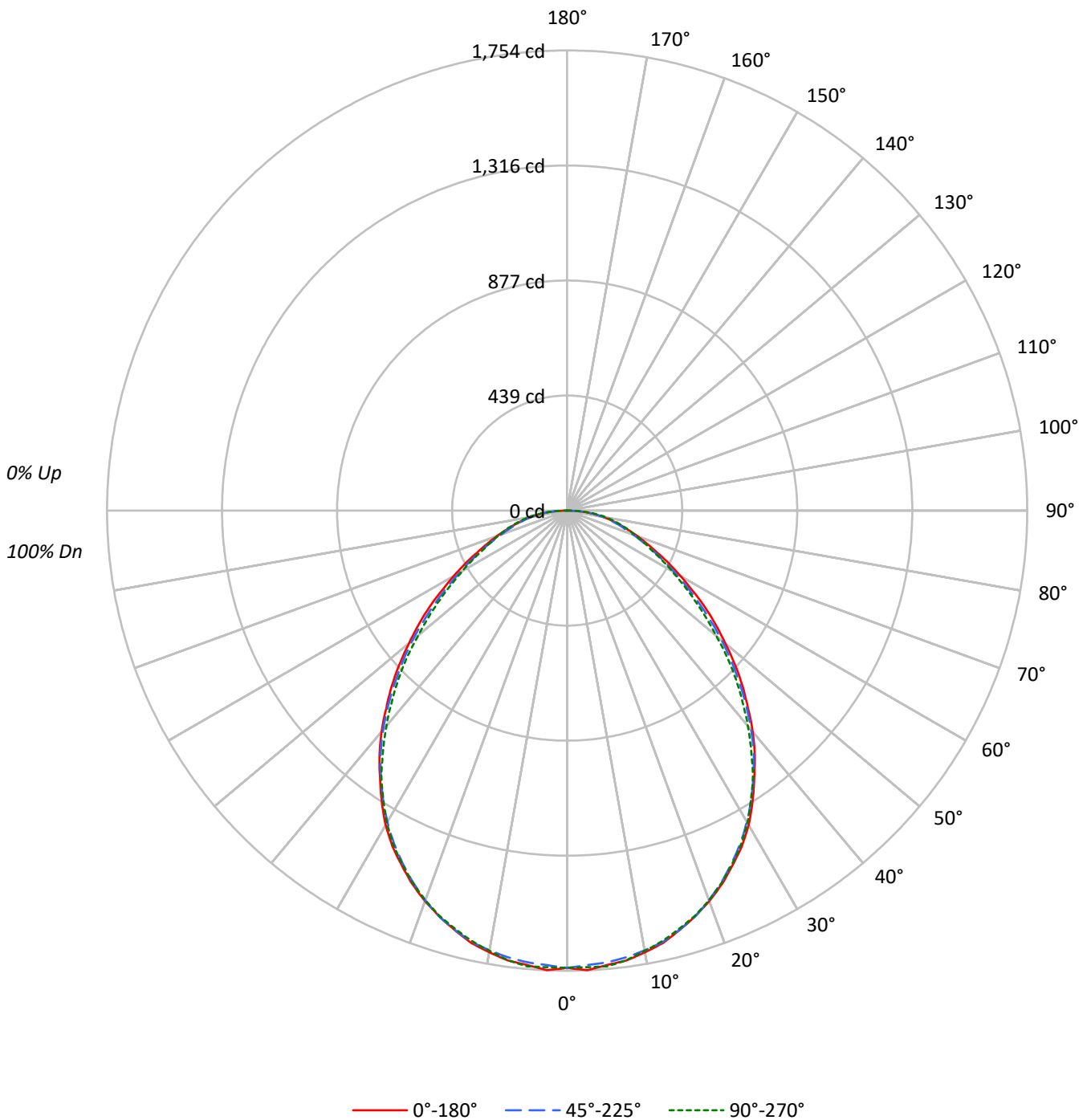
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2345	2345	2345
5°	2348	2335	2355
10°	2336	2326	2328
15°	2306	2304	2298
20°	2268	2263	2263
25°	2215	2203	2208
30°	2151	2129	2135
35°	2043	2033	2028
40°	1935	1917	1884
45°	1798	1767	1732
50°	1647	1611	1550
55°	1504	1437	1388
60°	1341	1276	1242
65°	1207	1143	1128
70°	1120	1052	1094
75°	1071	1024	1110
80°	1071	1071	1186
85°	1112	1124	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	4.1
10°-20°	465.7	11.6
20°-30°	683.6	17.0
30°-40°	772.8	19.3
40°-50°	714.2	17.8
50°-60°	550.3	13.7
60°-70°	364.4	9.1
70°-80°	216.9	5.4
80°-90°	79.5	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°	1313.9	32.7
0°-40°	2086.7	52.0
0°-60°	3351.2	83.5
0°-90°	4012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1739	1739	1729	1730	1744	165
15°	1656	1652	1654	1653	1650	467
25°	1492	1488	1484	1482	1487	687
35°	1244	1242	1238	1232	1235	778
45°	945	938	928	912	910	728
55°	641	628	612	596	592	572
65°	379	373	359	356	354	380
75°	206	201	197	206	214	220
85°	72	68	73	80	81	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.7	1742.7	1742.7	1742.7	1742.7
2.5°	1753.5	1744.4	1734.4	1734.4	1741.9
5°	1738.6	1738.6	1728.7	1729.5	1743.5
7.5°	1729.5	1724.5	1717.9	1717.9	1728.7
10°	1709.6	1705.5	1702.2	1700.5	1703.8
12.5°	1688.1	1681.5	1684.0	1681.5	1680.7
15°	1655.8	1652.5	1654.2	1653.3	1650.0
17.5°	1621.1	1619.4	1622.7	1616.9	1619.4
20°	1583.8	1578.9	1580.5	1577.2	1580.5
22.5°	1541.6	1538.3	1534.2	1530.0	1536.7
25°	1492.0	1487.8	1483.7	1482.1	1487.0
27.5°	1442.3	1435.7	1429.9	1428.3	1435.7
30°	1384.4	1377.0	1370.3	1368.7	1374.5
32.5°	1315.7	1314.1	1305.8	1302.5	1305.0
35°	1243.7	1242.1	1237.9	1232.1	1234.6
37.5°	1175.1	1174.2	1168.4	1158.5	1151.9
40°	1101.4	1095.6	1091.5	1077.4	1072.4
42.5°	1020.3	1018.7	1011.2	995.5	989.7
45°	945.0	938.4	928.5	911.9	910.3
47.5°	867.2	858.1	849.0	828.3	827.5
50°	787.0	780.3	769.6	748.9	740.6
52.5°	712.5	703.4	688.5	668.6	664.5
55°	641.3	628.1	612.4	595.8	591.7
57.5°	565.2	559.4	540.4	527.1	522.2
60°	498.2	493.2	474.2	461.7	461.7
62.5°	437.7	430.3	413.8	405.5	405.5
65°	379.0	373.2	359.1	355.8	354.2
67.5°	328.5	321.1	311.1	310.3	314.5
70°	284.7	275.6	267.3	275.6	278.0
72.5°	243.3	237.5	230.0	240.8	245.8
75°	206.0	201.1	196.9	206.0	213.5
77.5°	172.1	167.2	167.2	177.1	183.7
80°	138.2	134.9	138.2	146.5	153.1
82.5°	105.9	103.4	107.6	115.9	120.0
85°	72.0	67.9	72.8	80.3	81.1
87.5°	33.9	33.1	36.4	41.4	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)