

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: P292923

Luminaire Tested: **24GR-LD5-38-F1-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292923
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-L83050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

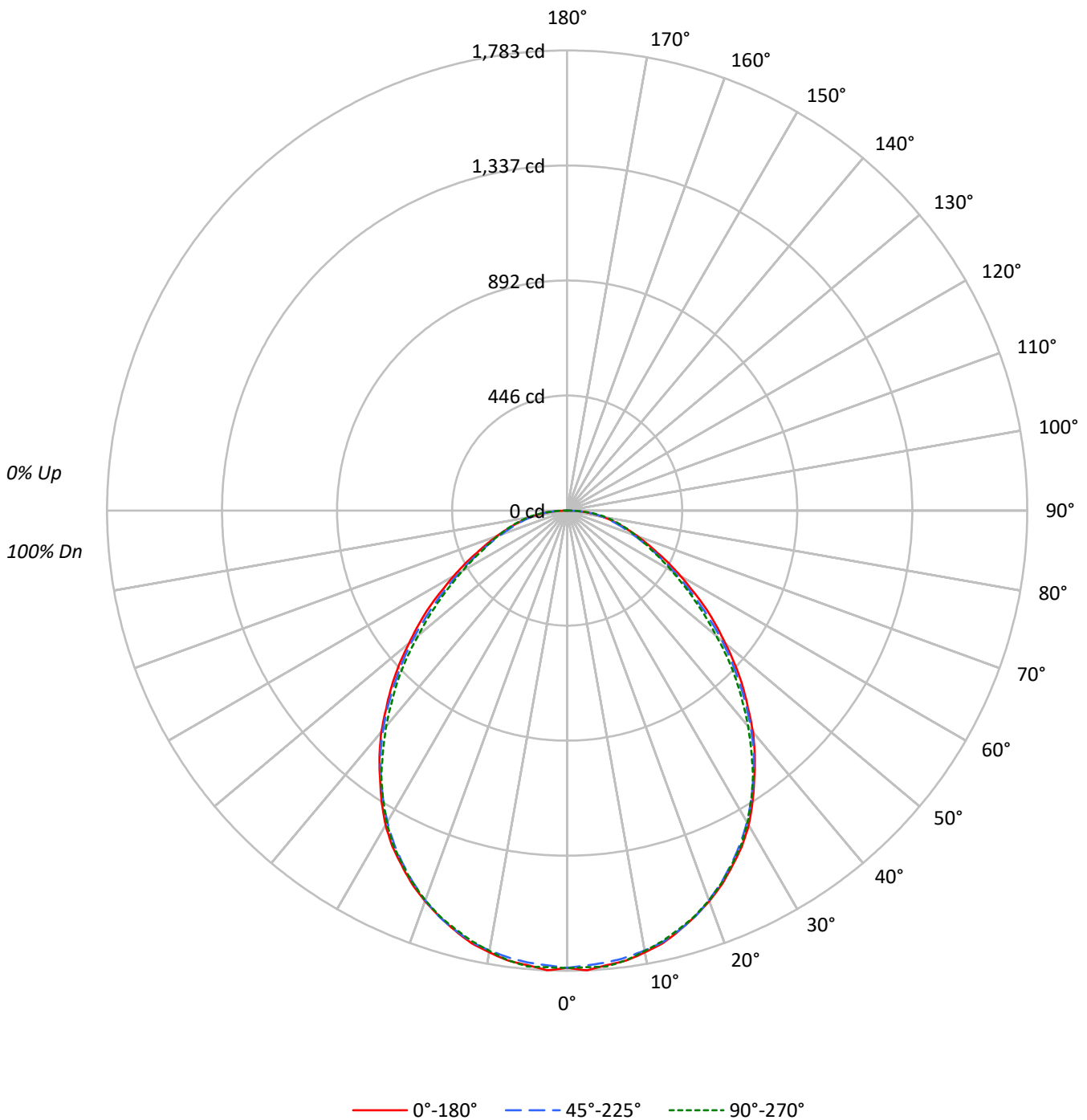
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2384	2384	2384
5°	2387	2374	2394
10°	2375	2364	2367
15°	2345	2343	2337
20°	2306	2301	2301
25°	2252	2239	2245
30°	2187	2165	2171
35°	2077	2067	2062
40°	1967	1949	1915
45°	1828	1796	1761
50°	1675	1638	1576
55°	1529	1460	1411
60°	1363	1297	1263
65°	1227	1162	1146
70°	1138	1069	1112
75°	1089	1041	1129
80°	1089	1089	1206
85°	1130	1142	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	4.1
10°-20°	473.5	11.6
20°-30°	695.0	17.0
30°-40°	785.7	19.3
40°-50°	726.2	17.8
50°-60°	559.5	13.7
60°-70°	370.5	9.1
70°-80°	220.5	5.4
80°-90°	80.8	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°	1335.8	32.7
0°-40°	2121.5	52.0
0°-60°	3407.2	83.5
0°-90°	4079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1768	1768	1758	1758	1773	168
15°	1684	1680	1682	1681	1678	474
25°	1517	1513	1508	1507	1512	698
35°	1264	1263	1259	1253	1255	791
45°	961	954	944	927	926	740
55°	652	639	623	606	602	582
65°	385	379	365	362	360	386
75°	210	204	200	210	217	223
85°	73	69	74	82	82	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1782.8	1773.5	1763.4	1763.4	1771.0
5°	1767.6	1767.6	1757.5	1758.4	1772.7
7.5°	1758.4	1753.3	1746.6	1746.6	1757.5
10°	1738.2	1734.0	1730.6	1728.9	1732.3
12.5°	1716.3	1709.6	1712.1	1709.6	1708.7
15°	1683.5	1680.1	1681.8	1681.0	1677.6
17.5°	1648.1	1646.5	1649.8	1643.9	1646.5
20°	1610.3	1605.2	1606.9	1603.6	1606.9
22.5°	1567.4	1564.0	1559.8	1555.6	1562.3
25°	1516.9	1512.7	1508.5	1506.8	1511.9
27.5°	1466.4	1459.7	1453.8	1452.1	1459.7
30°	1407.5	1400.0	1393.2	1391.5	1397.4
32.5°	1337.7	1336.0	1327.6	1324.2	1326.8
35°	1264.5	1262.8	1258.6	1252.7	1255.3
37.5°	1194.7	1193.8	1187.9	1177.8	1171.1
40°	1119.8	1113.9	1109.7	1095.4	1090.4
42.5°	1037.3	1035.7	1028.1	1012.1	1006.2
45°	960.8	954.1	944.0	927.1	925.5
47.5°	881.7	872.4	863.2	842.2	841.3
50°	800.1	793.4	782.4	761.4	753.0
52.5°	724.4	715.1	700.0	679.8	675.6
55°	652.0	638.6	622.6	605.8	601.5
57.5°	574.6	568.7	549.4	535.9	530.9
60°	506.5	501.4	482.1	469.5	469.5
62.5°	445.1	437.5	420.7	412.2	412.2
65°	385.3	379.4	365.1	361.8	360.1
67.5°	334.0	326.4	316.3	315.5	319.7
70°	289.4	280.2	271.7	280.2	282.7
72.5°	247.3	241.5	233.9	244.8	249.9
75°	209.5	204.4	200.2	209.5	217.1
77.5°	175.0	169.9	169.9	180.0	186.8
80°	140.5	137.1	140.5	148.9	155.6
82.5°	107.7	105.2	109.4	117.8	122.0
85°	73.2	69.0	74.0	81.6	82.4
87.5°	34.5	33.7	37.0	42.1	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)