

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: P292964

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292964
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-LD5-34-F1-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3296.0 lumens
Efficiency: N/A
Efficacy: 144.7 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

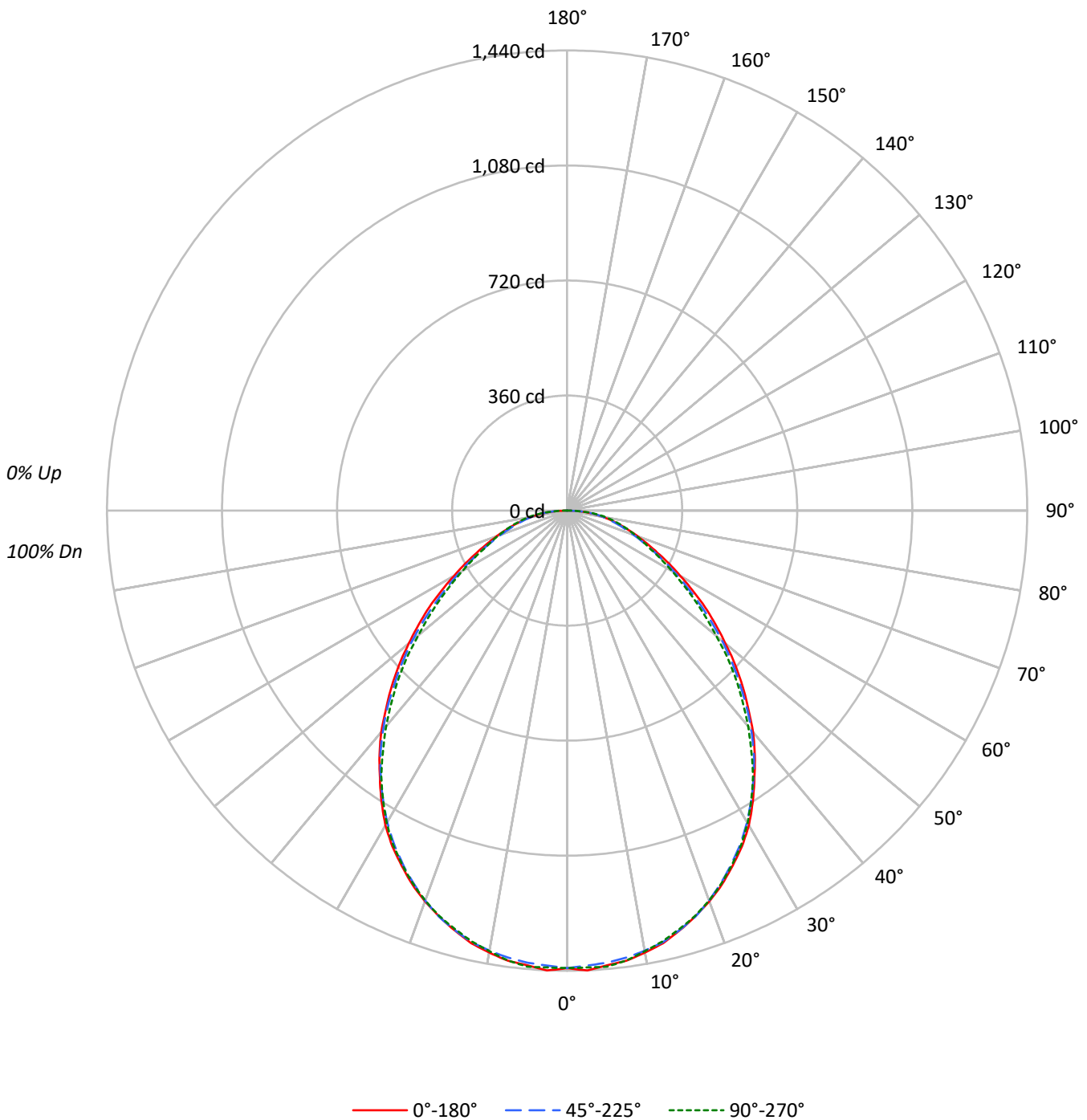
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1926	1926	1926
5°	1929	1918	1935
10°	1919	1911	1912
15°	1895	1893	1888
20°	1863	1859	1859
25°	1820	1810	1814
30°	1767	1749	1754
35°	1678	1670	1666
40°	1589	1575	1547
45°	1477	1451	1423
50°	1353	1323	1274
55°	1236	1180	1140
60°	1101	1048	1021
65°	991	939	926
70°	920	864	899
75°	880	841	912
80°	879	879	975
85°	912	923	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	4.1
10°-20°	382.6	11.6
20°-30°	561.6	17.0
30°-40°	634.9	19.3
40°-50°	586.8	17.8
50°-60°	452.1	13.7
60°-70°	299.4	9.1
70°-80°	178.2	5.4
80°-90°	65.3	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°	1079.4	32.7
0°-40°	1714.3	52.0
0°-60°	2753.2	83.5
0°-90°	3296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1428	1428	1420	1421	1432	136
15°	1360	1358	1359	1358	1356	383
25°	1226	1222	1219	1218	1222	564
35°	1022	1020	1017	1012	1014	639
45°	776	771	763	749	748	598
55°	527	516	503	490	486	470
65°	311	307	295	292	291	312
75°	169	165	162	169	175	181
85°	59	56	60	66	67	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.7	1431.7	1431.7	1431.7	1431.7
2.5°	1440.5	1433.1	1424.9	1424.9	1431.0
5°	1428.3	1428.3	1420.1	1420.8	1432.4
7.5°	1420.8	1416.7	1411.3	1411.3	1420.1
10°	1404.5	1401.1	1398.4	1397.0	1399.8
12.5°	1386.8	1381.4	1383.4	1381.4	1380.7
15°	1360.3	1357.6	1359.0	1358.3	1355.6
17.5°	1331.8	1330.4	1333.1	1328.4	1330.4
20°	1301.2	1297.1	1298.5	1295.7	1298.5
22.5°	1266.5	1263.8	1260.4	1257.0	1262.4
25°	1225.7	1222.3	1218.9	1217.6	1221.6
27.5°	1184.9	1179.5	1174.7	1173.4	1179.5
30°	1137.3	1131.2	1125.8	1124.4	1129.2
32.5°	1080.9	1079.6	1072.8	1070.0	1072.1
35°	1021.8	1020.4	1017.0	1012.3	1014.3
37.5°	965.3	964.7	959.9	951.8	946.3
40°	904.8	900.1	896.7	885.1	881.0
42.5°	838.2	836.9	830.7	817.8	813.1
45°	776.4	770.9	762.8	749.2	747.8
47.5°	712.5	705.0	697.5	680.5	679.8
50°	646.5	641.1	632.2	615.2	608.4
52.5°	585.3	577.8	565.6	549.3	545.9
55°	526.9	516.0	503.1	489.5	486.1
57.5°	464.3	459.6	443.9	433.0	429.0
60°	409.3	405.2	389.5	379.3	379.3
62.5°	359.6	353.5	339.9	333.1	333.1
65°	311.4	306.6	295.0	292.3	291.0
67.5°	269.9	263.8	255.6	254.9	258.3
70°	233.9	226.4	219.6	226.4	228.4
72.5°	199.9	195.1	189.0	197.8	201.9
75°	169.3	165.2	161.8	169.3	175.4
77.5°	141.4	137.3	137.3	145.5	150.9
80°	113.5	110.8	113.5	120.3	125.8
82.5°	87.0	85.0	88.4	95.2	98.6
85°	59.1	55.7	59.8	65.9	66.6
87.5°	27.9	27.2	29.9	34.0	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)