

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: P292917

Luminaire Tested: **24GR-LD5-34-F1-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292917
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-L83050-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: 3700.0 lumens
Efficiency: N/A
Efficacy: 153.6 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

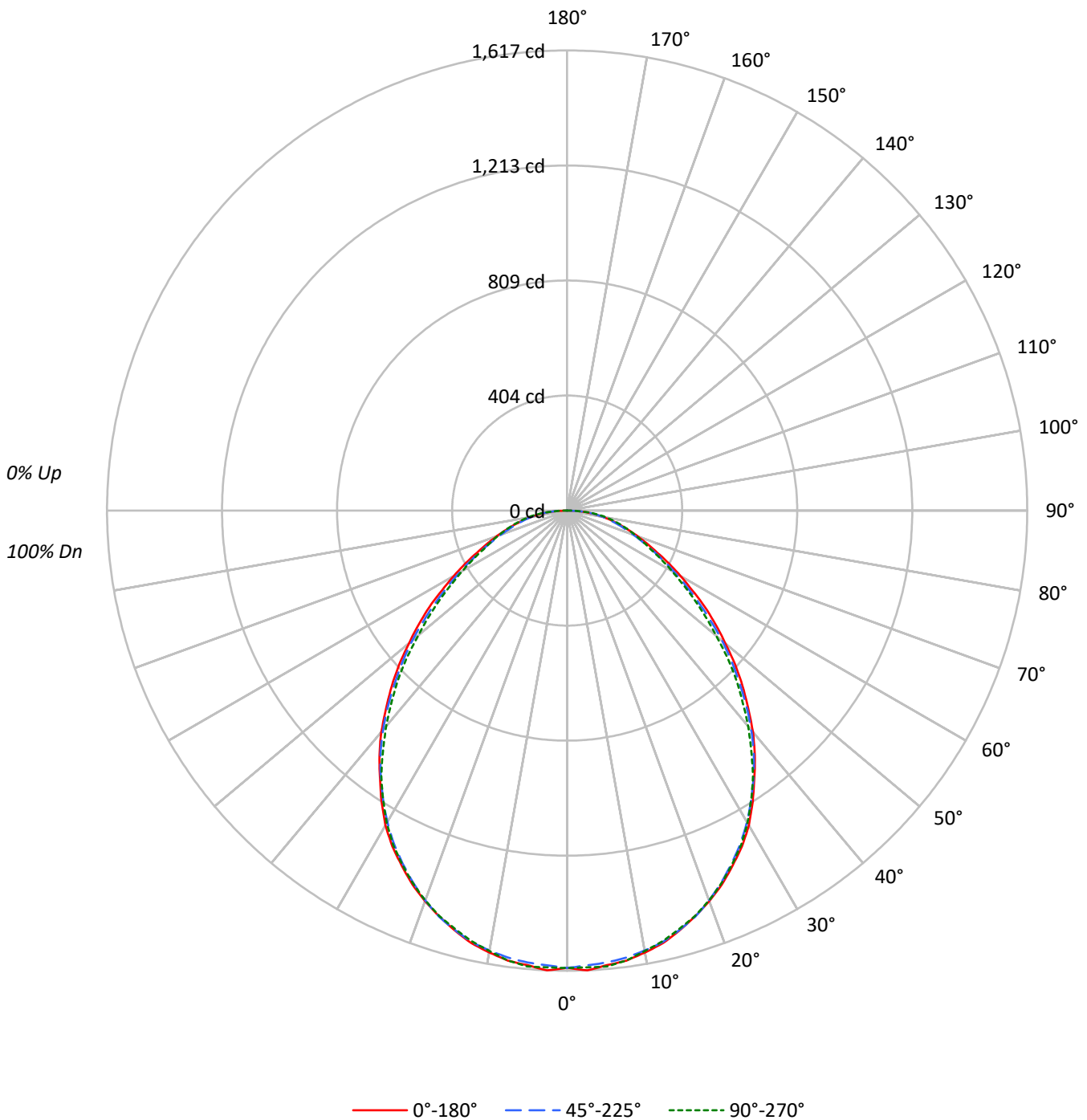
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2162	2162	2162
5°	2166	2153	2172
10°	2154	2145	2147
15°	2127	2125	2120
20°	2091	2087	2087
25°	2043	2031	2036
30°	1984	1963	1969
35°	1884	1875	1870
40°	1784	1768	1737
45°	1658	1629	1597
50°	1519	1486	1430
55°	1387	1325	1280
60°	1236	1177	1146
65°	1113	1054	1040
70°	1033	970	1009
75°	988	944	1024
80°	987	987	1094
85°	1025	1037	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	4.1
10°-20°	429.5	11.6
20°-30°	630.4	17.0
30°-40°	712.7	19.3
40°-50°	658.7	17.8
50°-60°	507.5	13.7
60°-70°	336.0	9.1
70°-80°	200.0	5.4
80°-90°	73.3	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°	1211.7	32.7
0°-40°	1924.4	52.0
0°-60°	3090.6	83.5
0°-90°	3700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1603	1603	1594	1595	1608	152
15°	1527	1524	1526	1525	1522	430
25°	1376	1372	1368	1367	1371	634
35°	1147	1146	1142	1136	1139	718
45°	872	865	856	841	840	671
55°	591	579	565	550	546	528
65°	350	344	331	328	327	350
75°	190	185	182	190	197	203
85°	66	63	67	74	75	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607.2	1607.2	1607.2	1607.2	1607.2
2.5°	1617.1	1608.7	1599.6	1599.6	1606.4
5°	1603.4	1603.4	1594.2	1595.0	1608.0
7.5°	1595.0	1590.4	1584.3	1584.3	1594.2
10°	1576.7	1572.9	1569.8	1568.3	1571.3
12.5°	1556.8	1550.7	1553.0	1550.7	1550.0
15°	1527.1	1524.0	1525.5	1524.8	1521.7
17.5°	1495.0	1493.5	1496.5	1491.2	1493.5
20°	1460.7	1456.1	1457.6	1454.6	1457.6
22.5°	1421.7	1418.7	1414.9	1411.1	1417.2
25°	1376.0	1372.1	1368.3	1366.8	1371.4
27.5°	1330.2	1324.1	1318.7	1317.2	1324.1
30°	1276.7	1269.9	1263.8	1262.2	1267.6
32.5°	1213.4	1211.9	1204.2	1201.2	1203.5
35°	1147.0	1145.5	1141.7	1136.3	1138.6
37.5°	1083.7	1082.9	1077.6	1068.4	1062.3
40°	1015.8	1010.4	1006.6	993.6	989.0
42.5°	941.0	939.4	932.6	918.1	912.7
45°	871.5	865.4	856.3	841.0	839.5
47.5°	799.8	791.4	783.0	763.9	763.1
50°	725.8	719.6	709.7	690.7	683.0
52.5°	657.1	648.7	634.9	616.6	612.8
55°	591.4	579.2	564.7	549.5	545.7
57.5°	521.2	515.9	498.3	486.1	481.5
60°	459.4	454.8	437.3	425.8	425.8
62.5°	403.7	396.8	381.6	373.9	373.9
65°	349.5	344.2	331.2	328.2	326.6
67.5°	303.0	296.1	286.9	286.2	290.0
70°	262.5	254.1	246.5	254.1	256.4
72.5°	224.4	219.0	212.2	222.1	226.7
75°	190.0	185.4	181.6	190.0	196.9
77.5°	158.7	154.2	154.2	163.3	169.4
80°	127.4	124.4	127.4	135.1	141.2
82.5°	97.7	95.4	99.2	106.8	110.7
85°	66.4	62.6	67.2	74.0	74.8
87.5°	31.3	30.5	33.6	38.2	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)