

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: P292970

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292970
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-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: 3640.0 lumens
Efficiency: N/A
Efficacy: 154.1 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

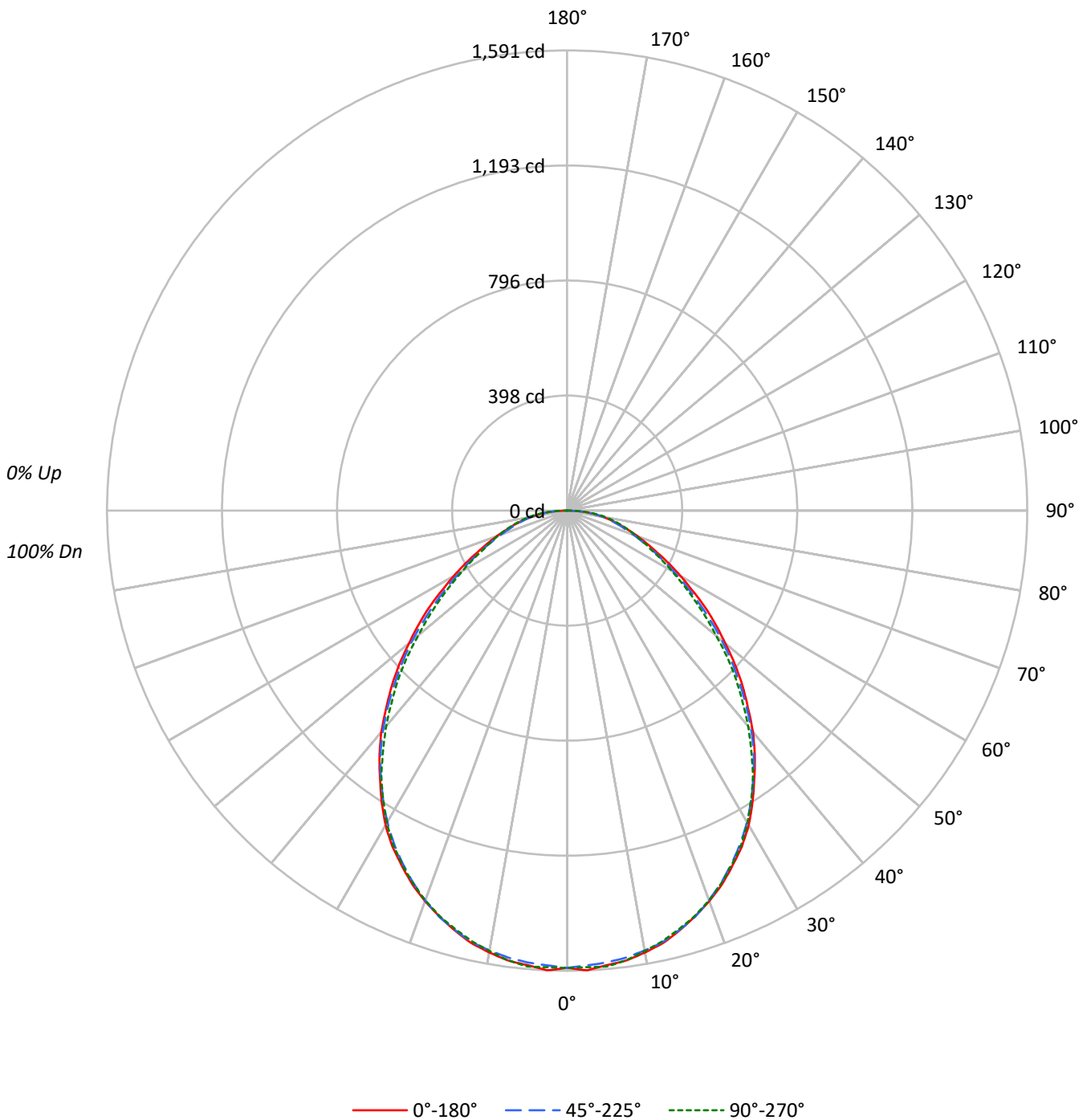
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292970

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292970

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-5700K

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°	2127	2127	2127
5°	2130	2118	2137
10°	2119	2110	2112
15°	2093	2091	2085
20°	2058	2053	2053
25°	2010	1998	2003
30°	1951	1932	1937
35°	1853	1845	1840
40°	1755	1739	1709
45°	1631	1603	1572
50°	1495	1461	1406
55°	1365	1303	1259
60°	1216	1158	1127
65°	1095	1037	1023
70°	1016	954	993
75°	972	929	1007
80°	972	972	1076
85°	1008	1020	1136



TEST NUMBER: P292970

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.1
10°-20°	422.6	11.6
20°-30°	620.2	17.0
30°-40°	701.2	19.3
40°-50°	648.0	17.8
50°-60°	499.3	13.7
60°-70°	330.6	9.1
70°-80°	196.8	5.4
80°-90°	72.1	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°	1192.1	32.7
0°-40°	1893.2	52.0
0°-60°	3040.5	83.5
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1577	1577	1568	1569	1582	150
15°	1502	1499	1501	1500	1497	423
25°	1354	1350	1346	1345	1349	623
35°	1128	1127	1123	1118	1120	706
45°	857	851	842	827	826	660
55°	582	570	556	541	537	519
65°	344	339	326	323	321	345
75°	187	182	179	187	194	199
85°	65	62	66	73	74	69
90°	0	0	0	0	0	



TEST NUMBER: P292970

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.1	1581.1	1581.1	1581.1	1581.1
2.5°	1590.9	1582.6	1573.6	1573.6	1580.4
5°	1577.4	1577.4	1568.4	1569.1	1581.9
7.5°	1569.1	1564.6	1558.6	1558.6	1568.4
10°	1551.1	1547.3	1544.3	1542.8	1545.8
12.5°	1531.6	1525.6	1527.8	1525.6	1524.8
15°	1502.3	1499.3	1500.8	1500.0	1497.0
17.5°	1470.8	1469.3	1472.3	1467.0	1469.3
20°	1437.0	1432.5	1434.0	1431.0	1434.0
22.5°	1398.7	1395.7	1391.9	1388.2	1394.2
25°	1353.6	1349.9	1346.1	1344.6	1349.1
27.5°	1308.6	1302.6	1297.3	1295.8	1302.6
30°	1256.0	1249.3	1243.3	1241.8	1247.0
32.5°	1193.7	1192.2	1184.7	1181.7	1184.0
35°	1128.4	1126.9	1123.2	1117.9	1120.2
37.5°	1066.1	1065.3	1060.1	1051.1	1045.1
40°	999.3	994.0	990.3	977.5	973.0
42.5°	925.7	924.2	917.4	903.2	897.9
45°	857.4	851.4	842.4	827.4	825.9
47.5°	786.8	778.6	770.3	751.5	750.8
50°	714.0	708.0	698.2	679.5	671.9
52.5°	646.4	638.2	624.6	606.6	602.9
55°	581.8	569.8	555.6	540.6	536.8
57.5°	512.8	507.5	490.3	478.2	473.7
60°	452.0	447.5	430.2	418.9	418.9
62.5°	397.2	390.4	375.4	367.9	367.9
65°	343.9	338.6	325.8	322.8	321.3
67.5°	298.1	291.3	282.3	281.5	285.3
70°	258.3	250.0	242.5	250.0	252.3
72.5°	220.7	215.5	208.7	218.5	223.0
75°	186.9	182.4	178.7	186.9	193.7
77.5°	156.2	151.7	151.7	160.7	166.7
80°	125.4	122.4	125.4	132.9	138.9
82.5°	96.1	93.8	97.6	105.1	108.9
85°	65.3	61.6	66.1	72.8	73.6
87.5°	30.8	30.0	33.0	37.5	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)