

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: P290935

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3706.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

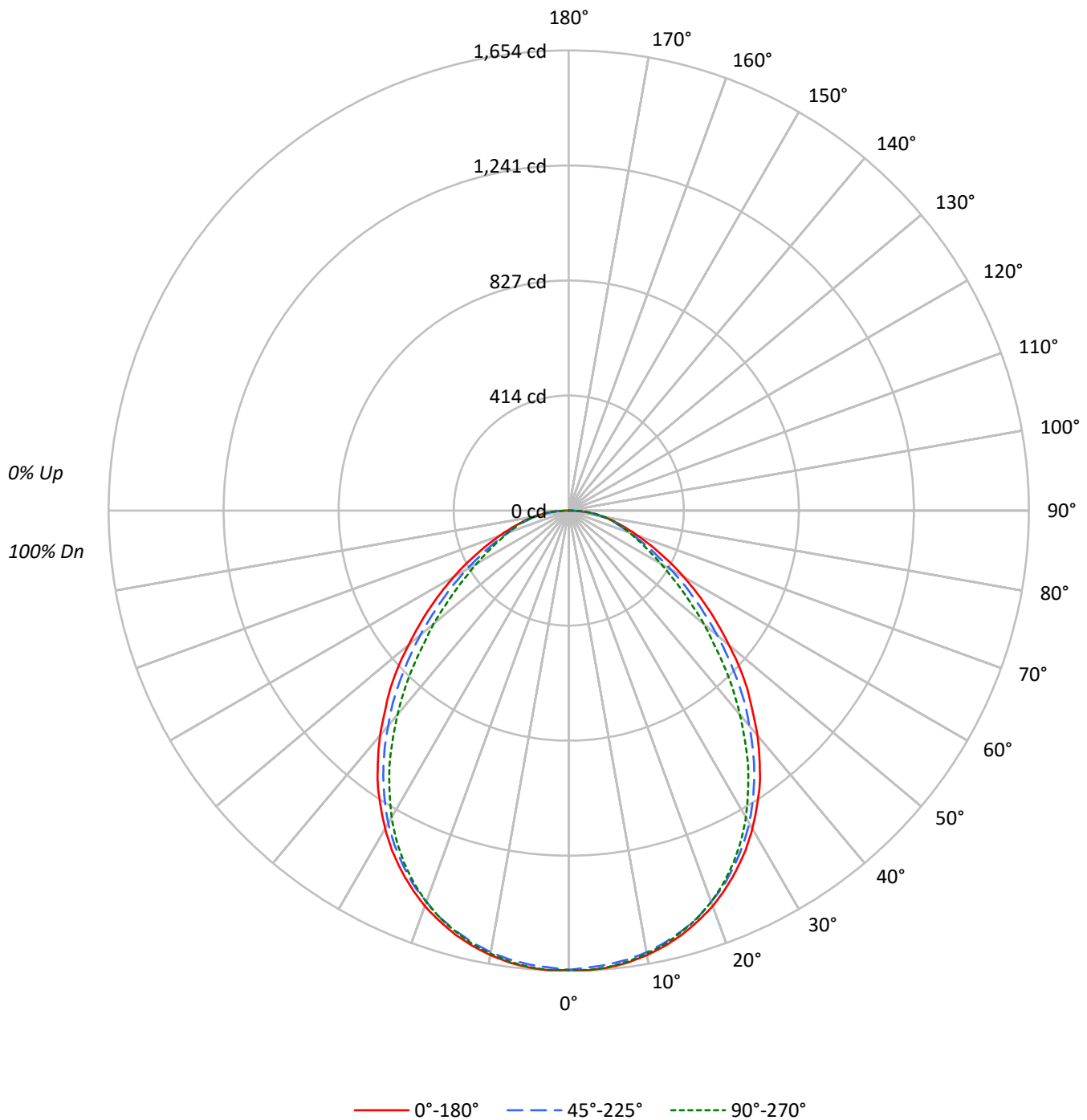
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290935

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P290935

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4443	4443	4443
5°	4453	4425	4448
10°	4433	4405	4419
15°	4394	4360	4367
20°	4332	4285	4287
25°	4233	4181	4153
30°	4103	4033	3957
35°	3935	3821	3695
40°	3706	3548	3361
45°	3456	3247	3006
50°	3143	2913	2655
55°	2861	2583	2314
60°	2566	2275	2055
65°	2288	2027	1889
70°	2080	1848	1828
75°	1944	1800	1890
80°	1954	1860	1968
85°	2041	1908	2177



TEST NUMBER: P290935

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	4.2
10°-20°	442.6	11.9
20°-30°	648.9	17.5
30°-40°	724.3	19.5
40°-50°	655.7	17.7
50°-60°	495.1	13.4
60°-70°	323.7	8.7
70°-80°	190.1	5.1
80°-90°	69.6	1.9
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°	1247.6	33.7
0°-40°	1971.9	53.2
0°-60°	3122.7	84.3
0°-90°	3706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1648	1645	1638	1648	1647	157
15°	1577	1574	1565	1574	1568	444
25°	1426	1420	1408	1406	1399	656
35°	1198	1187	1163	1137	1125	746
45°	908	894	853	807	790	698
55°	610	596	551	507	493	546
65°	359	348	318	300	297	360
75°	187	182	173	177	182	201
85°	66	64	62	70	70	70
90°	0	0	0	0	0	



TEST NUMBER: P290935

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.0	1651.0	1651.0	1651.0	1651.0
2.5°	1653.6	1651.0	1643.2	1653.6	1652.7
5°	1648.4	1644.9	1638.0	1647.5	1646.7
7.5°	1638.0	1634.5	1627.5	1636.2	1634.5
10°	1622.3	1618.8	1611.9	1621.4	1617.1
12.5°	1602.3	1598.8	1591.0	1599.7	1596.2
15°	1577.1	1574.5	1564.9	1573.6	1567.5
17.5°	1546.6	1542.3	1535.3	1540.5	1536.2
20°	1512.7	1507.5	1496.2	1501.4	1497.0
22.5°	1471.8	1464.8	1457.0	1457.0	1450.9
25°	1425.7	1420.5	1408.3	1405.7	1398.7
27.5°	1376.1	1371.8	1356.1	1351.8	1339.6
30°	1320.5	1314.4	1297.8	1283.9	1273.5
32.5°	1258.7	1254.3	1231.7	1213.5	1198.7
35°	1197.8	1187.4	1163.0	1136.9	1124.7
37.5°	1126.5	1118.6	1088.2	1056.0	1039.5
40°	1055.1	1045.6	1009.9	974.2	956.8
42.5°	977.7	969.0	935.1	892.5	874.2
45°	908.1	894.2	853.3	807.2	789.8
47.5°	831.6	816.8	773.3	724.6	704.6
50°	750.7	741.1	695.9	648.9	634.1
52.5°	678.5	663.7	621.1	575.0	559.3
55°	609.8	595.9	550.6	507.1	493.2
57.5°	541.1	525.4	486.3	447.1	433.2
60°	476.7	461.0	422.8	390.6	381.9
62.5°	418.4	401.0	367.1	341.9	335.8
65°	359.3	347.9	318.4	300.1	296.6
67.5°	309.7	295.8	272.3	263.6	261.8
70°	264.4	254.9	234.9	232.3	232.3
72.5°	223.6	215.7	200.9	202.7	205.3
75°	187.0	181.8	173.1	176.6	181.8
77.5°	155.7	150.5	145.3	150.5	154.0
80°	126.1	120.9	120.0	124.4	127.0
82.5°	94.8	90.5	91.3	98.3	100.9
85°	66.1	63.5	61.8	69.6	70.5
87.5°	33.9	32.2	31.3	37.4	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)