

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: P290969

Luminaire Tested: **14GR-LD5-36-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

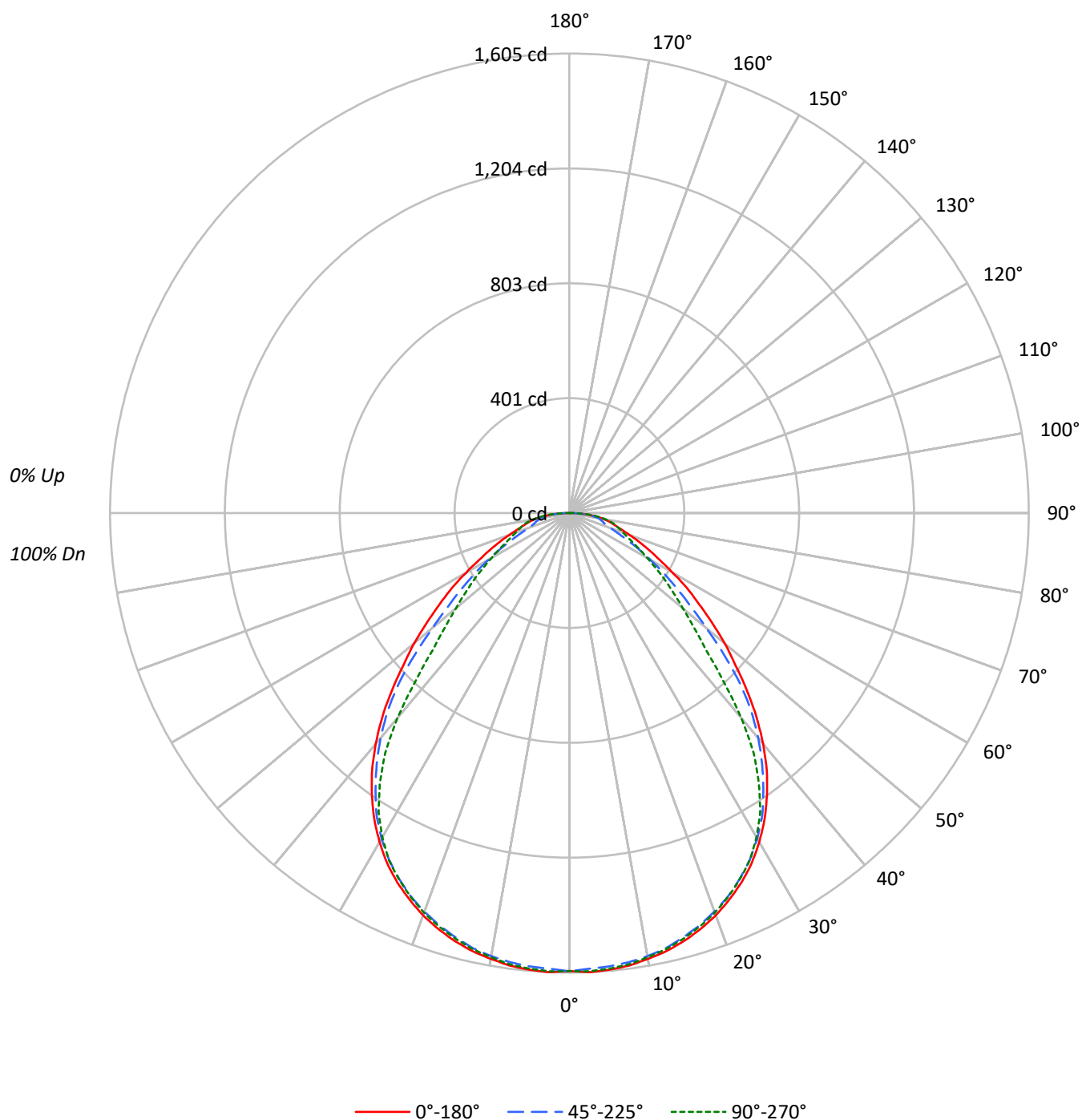
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290969

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P290969

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L83050-W2A1-U-3000K

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	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4305	4305	4305
5°	4326	4293	4315
10°	4320	4294	4305
15°	4312	4274	4287
20°	4281	4242	4254
25°	4225	4184	4187
30°	4122	4079	4061
35°	3953	3881	3793
40°	3700	3606	3281
45°	3342	3215	2564
50°	2963	2610	2169
55°	2587	2142	1913
60°	2243	1763	1689
65°	1967	1415	1559
70°	1755	1199	1570
75°	1711	1264	1753
80°	1897	1596	2010
85°	1979	1701	2353



TEST NUMBER: P290969

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	4.3
10°-20°	434.8	12.5
20°-30°	650.4	18.6
30°-40°	734.2	21.0
40°-50°	622.9	17.8
50°-60°	421.5	12.1
60°-70°	251.6	7.2
70°-80°	157.5	4.5
80°-90°	66.3	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°	1237.0	35.4
0°-40°	1971.3	56.5
0°-60°	3015.6	86.4
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1601	1596	1589	1600	1597	152
15°	1548	1545	1534	1545	1539	436
25°	1423	1418	1409	1416	1410	654
35°	1203	1195	1181	1171	1155	750
45°	878	881	845	724	674	677
55°	551	525	456	409	408	497
65°	309	256	222	237	245	309
75°	165	147	122	160	169	177
85°	64	61	55	71	76	69
90°	0	0	0	0	0	



TEST NUMBER: P290969

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.7	1599.7	1599.7	1599.7	1599.7
2.5°	1605.4	1600.5	1593.2	1603.0	1602.2
5°	1601.4	1596.5	1589.2	1600.5	1597.3
7.5°	1594.1	1590.0	1582.7	1593.2	1590.0
10°	1581.1	1577.8	1571.4	1580.3	1575.4
12.5°	1567.3	1564.9	1556.8	1564.9	1560.0
15°	1547.8	1544.6	1534.1	1544.6	1538.9
17.5°	1523.5	1519.5	1510.5	1519.5	1514.6
20°	1495.1	1490.3	1481.4	1490.3	1485.4
22.5°	1461.1	1457.0	1448.9	1457.0	1450.5
25°	1423.0	1418.1	1409.2	1415.7	1410.0
27.5°	1379.2	1372.7	1364.6	1369.5	1366.2
30°	1326.5	1318.4	1312.7	1312.7	1307.0
32.5°	1268.9	1263.2	1253.5	1247.8	1240.5
35°	1203.2	1195.1	1181.4	1170.8	1154.6
37.5°	1132.7	1123.0	1105.9	1079.2	1057.3
40°	1053.2	1041.1	1026.5	973.8	934.1
42.5°	968.1	965.7	940.5	850.5	795.4
45°	878.1	881.4	844.9	724.1	673.8
47.5°	787.3	798.6	732.2	613.8	587.8
50°	707.8	711.9	623.5	532.7	518.1
52.5°	625.9	619.5	531.9	468.6	458.1
55°	551.4	525.4	456.5	408.6	407.8
57.5°	485.7	437.8	390.0	354.3	358.4
60°	416.8	363.2	327.6	308.1	313.8
62.5°	355.9	304.9	273.2	267.6	277.3
65°	308.9	256.2	222.2	236.8	244.9
67.5°	264.3	219.7	180.8	215.7	218.9
70°	223.0	190.5	152.4	198.6	199.5
72.5°	188.9	168.6	132.2	180.0	182.4
75°	164.6	146.8	121.6	160.5	168.6
77.5°	144.3	125.7	112.7	138.6	152.4
80°	122.4	101.4	103.0	115.9	129.7
82.5°	94.1	78.6	81.9	95.7	105.4
85°	64.1	60.8	55.1	71.4	76.2
87.5°	34.1	32.4	28.4	40.5	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)