

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: P290928

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290928
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-LD5-36-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

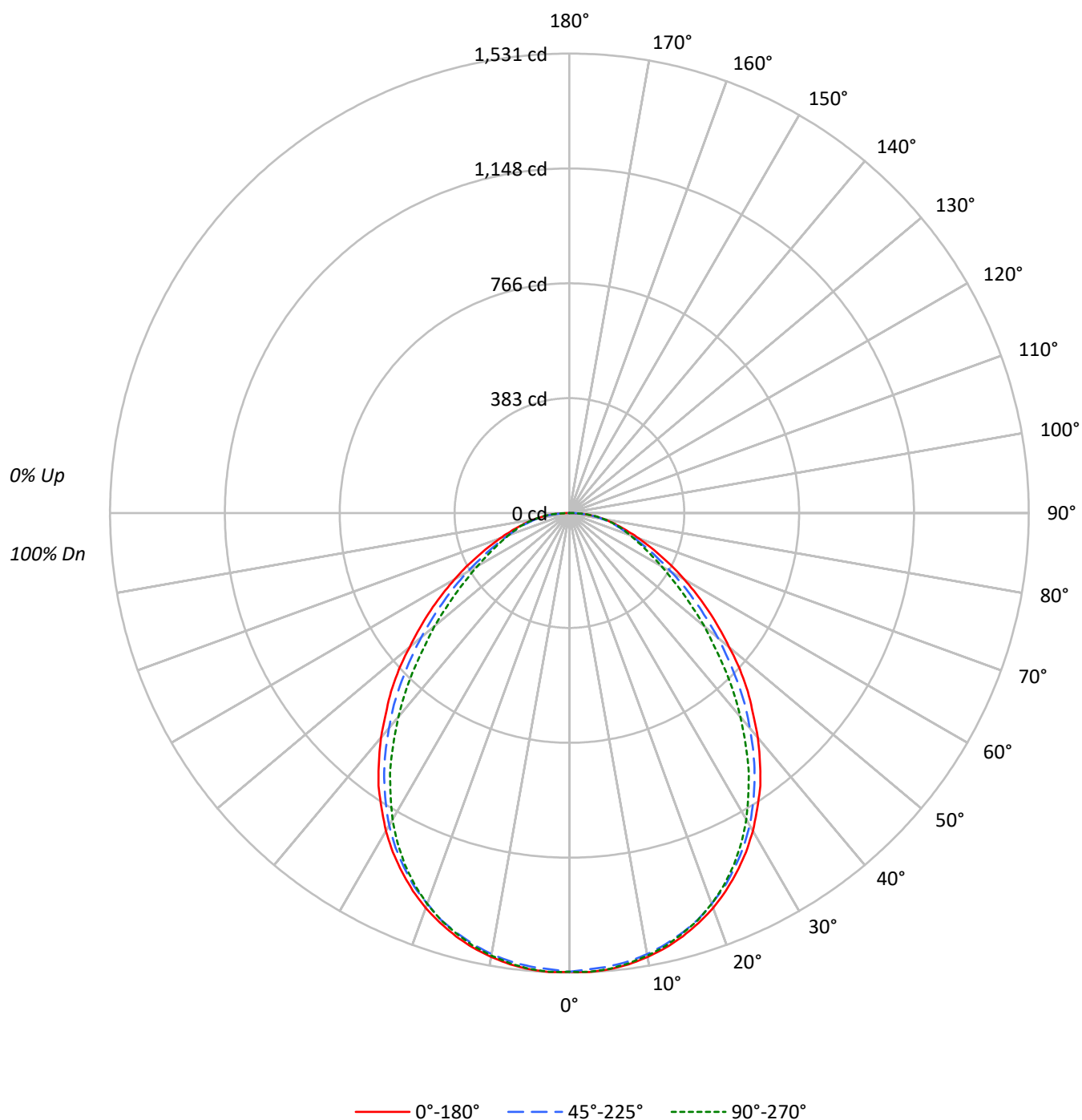
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4113	4113	4113
5°	4122	4096	4118
10°	4104	4077	4091
15°	4067	4036	4043
20°	4010	3966	3969
25°	3919	3871	3845
30°	3799	3733	3663
35°	3643	3537	3421
40°	3431	3284	3112
45°	3199	3006	2783
50°	2910	2697	2458
55°	2648	2392	2142
60°	2375	2106	1903
65°	2118	1876	1748
70°	1926	1710	1692
75°	1800	1667	1750
80°	1810	1722	1822
85°	1890	1766	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	4.2
10°-20°	409.7	11.9
20°-30°	600.8	17.5
30°-40°	670.5	19.5
40°-50°	607.1	17.7
50°-60°	458.4	13.4
60°-70°	299.6	8.7
70°-80°	176.0	5.1
80°-90°	64.4	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°	1155.0	33.7
0°-40°	1825.5	53.2
0°-60°	2891.0	84.3
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1526	1523	1516	1525	1524	145
15°	1460	1458	1449	1457	1451	411
25°	1320	1315	1304	1301	1295	607
35°	1109	1099	1077	1052	1041	691
45°	841	828	790	747	731	646
55°	564	552	510	470	457	505
65°	333	322	295	278	275	334
75°	173	168	160	164	168	186
85°	61	59	57	64	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.5	1528.5	1528.5	1528.5	1528.5
2.5°	1530.9	1528.5	1521.2	1530.9	1530.1
5°	1526.1	1522.9	1516.4	1525.3	1524.5
7.5°	1516.4	1513.2	1506.7	1514.8	1513.2
10°	1501.9	1498.7	1492.2	1501.1	1497.1
12.5°	1483.4	1480.2	1472.9	1481.0	1477.8
15°	1460.0	1457.6	1448.8	1456.8	1451.2
17.5°	1431.9	1427.8	1421.4	1426.2	1422.2
20°	1400.4	1395.6	1385.1	1390.0	1385.9
22.5°	1362.6	1356.2	1348.9	1348.9	1343.3
25°	1319.9	1315.1	1303.8	1301.4	1294.9
27.5°	1274.0	1270.0	1255.5	1251.5	1240.2
30°	1222.5	1216.8	1201.5	1188.6	1179.0
32.5°	1165.3	1161.3	1140.3	1123.4	1109.7
35°	1108.9	1099.3	1076.7	1052.5	1041.3
37.5°	1042.9	1035.6	1007.4	977.7	962.4
40°	976.8	968.0	935.0	902.0	885.8
42.5°	905.2	897.1	865.7	826.3	809.3
45°	840.7	827.9	790.0	747.3	731.2
47.5°	769.9	756.2	715.9	670.8	652.3
50°	695.0	686.1	644.3	600.8	587.1
52.5°	628.1	614.5	575.0	532.3	517.8
55°	564.5	551.6	509.8	469.5	456.6
57.5°	500.9	486.4	450.2	413.9	401.0
60°	441.3	426.8	391.4	361.6	353.5
62.5°	387.4	371.3	339.8	316.5	310.9
65°	332.6	322.1	294.7	277.8	274.6
67.5°	286.7	273.8	252.1	244.0	242.4
70°	244.8	236.0	217.4	215.0	215.0
72.5°	207.0	199.7	186.0	187.6	190.1
75°	173.1	168.3	160.3	163.5	168.3
77.5°	144.2	139.3	134.5	139.3	142.5
80°	116.8	111.9	111.1	115.2	117.6
82.5°	87.8	83.8	84.6	91.0	93.4
85°	61.2	58.8	57.2	64.4	65.2
87.5°	31.4	29.8	29.0	34.6	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)