

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: P290770

Luminaire Tested: **14GR-LD5-32-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290770
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-LD5-32-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3434.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

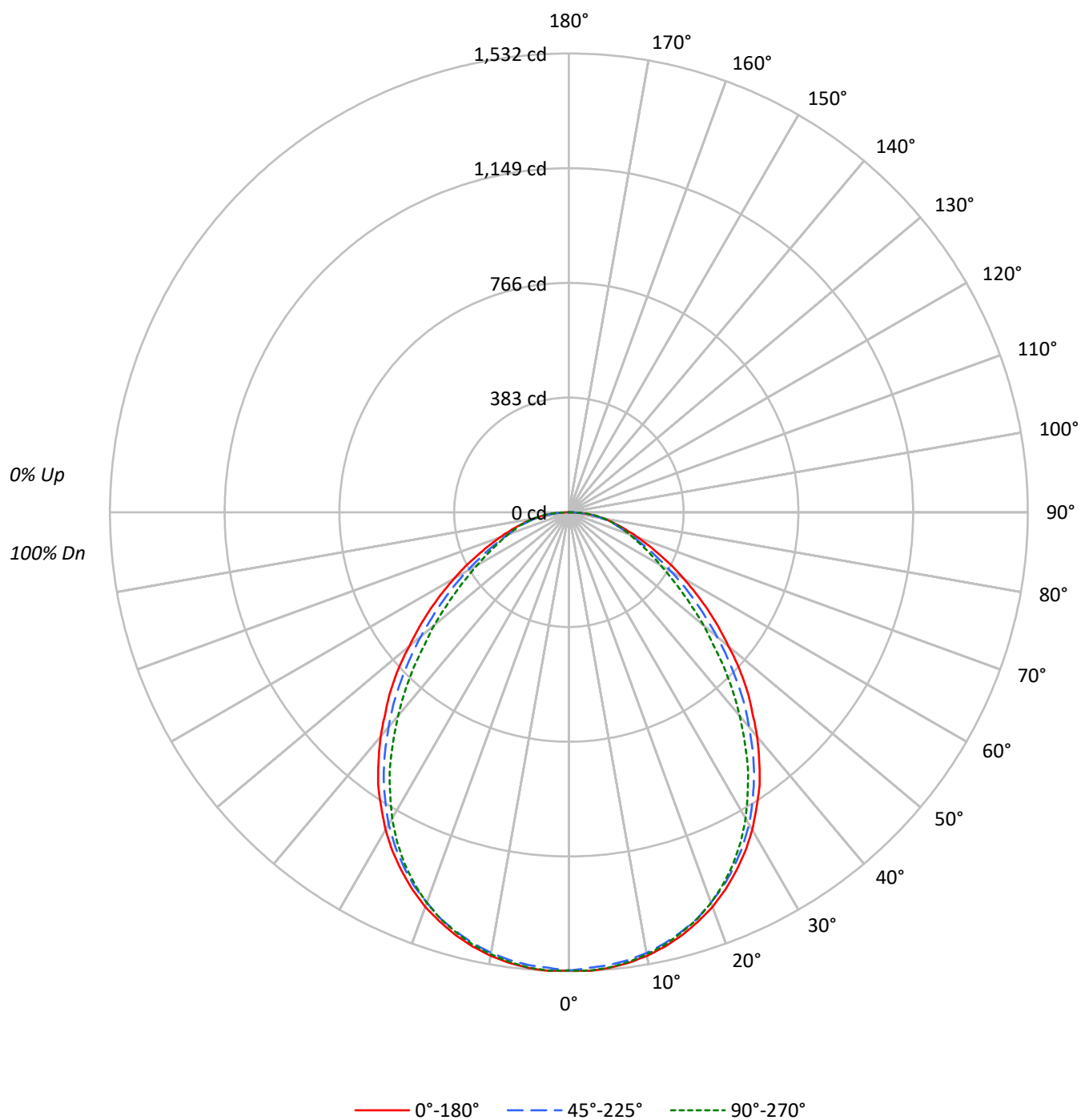
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4117	4117	4117
5°	4126	4100	4122
10°	4107	4081	4094
15°	4071	4040	4046
20°	4014	3970	3972
25°	3923	3874	3848
30°	3802	3737	3667
35°	3646	3540	3424
40°	3434	3287	3114
45°	3202	3009	2785
50°	2912	2699	2460
55°	2651	2394	2144
60°	2377	2108	1904
65°	2120	1878	1750
70°	1928	1712	1693
75°	1802	1668	1752
80°	1812	1723	1824
85°	1893	1766	2016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.2
10°-20°	410.1	11.9
20°-30°	601.3	17.5
30°-40°	671.1	19.5
40°-50°	607.6	17.7
50°-60°	458.8	13.4
60°-70°	299.9	8.7
70°-80°	176.1	5.1
80°-90°	64.5	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°	1156.0	33.7
0°-40°	1827.1	53.2
0°-60°	2893.5	84.3
0°-90°	3434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1527	1524	1518	1527	1526	145
15°	1461	1459	1450	1458	1452	412
25°	1321	1316	1305	1302	1296	608
35°	1110	1100	1078	1054	1042	691
45°	842	829	791	748	732	647
55°	565	552	510	470	457	506
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°	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1532.2	1529.8	1522.6	1532.2	1531.4
5°	1527.4	1524.2	1517.7	1526.6	1525.8
7.5°	1517.7	1514.5	1508.1	1516.1	1514.5
10°	1503.2	1500.0	1493.6	1502.4	1498.4
12.5°	1484.7	1481.5	1474.2	1482.3	1479.0
15°	1461.3	1458.9	1450.0	1458.1	1452.4
17.5°	1433.1	1429.1	1422.6	1427.5	1423.4
20°	1401.7	1396.8	1386.4	1391.2	1387.2
22.5°	1363.8	1357.3	1350.1	1350.1	1344.4
25°	1321.1	1316.2	1304.9	1302.5	1296.1
27.5°	1275.1	1271.1	1256.6	1252.6	1241.3
30°	1223.5	1217.9	1202.6	1189.7	1180.0
32.5°	1166.3	1162.3	1141.3	1124.4	1110.7
35°	1109.9	1100.2	1077.6	1053.5	1042.2
37.5°	1043.8	1036.5	1008.3	978.5	963.2
40°	977.7	968.8	935.8	902.7	886.6
42.5°	906.0	897.9	866.5	827.0	810.0
45°	841.5	828.6	790.7	748.0	731.9
47.5°	770.6	756.9	716.6	671.4	652.9
50°	695.6	686.7	644.8	601.3	587.6
52.5°	628.7	615.0	575.5	532.8	518.3
55°	565.0	552.1	510.2	469.9	457.0
57.5°	501.3	486.8	450.6	414.3	401.4
60°	441.7	427.2	391.7	361.9	353.8
62.5°	387.7	371.6	340.1	316.8	311.1
65°	332.9	322.4	295.0	278.1	274.9
67.5°	286.9	274.0	252.3	244.2	242.6
70°	245.0	236.2	217.6	215.2	215.2
72.5°	207.1	199.9	186.2	187.8	190.2
75°	173.3	168.5	160.4	163.6	168.5
77.5°	144.3	139.4	134.6	139.4	142.7
80°	116.9	112.0	111.2	115.3	117.7
82.5°	87.9	83.8	84.6	91.1	93.5
85°	61.3	58.8	57.2	64.5	65.3
87.5°	31.4	29.8	29.0	34.7	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)