

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: P290771

Luminaire Tested: **14GR-LD5-32-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290771
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

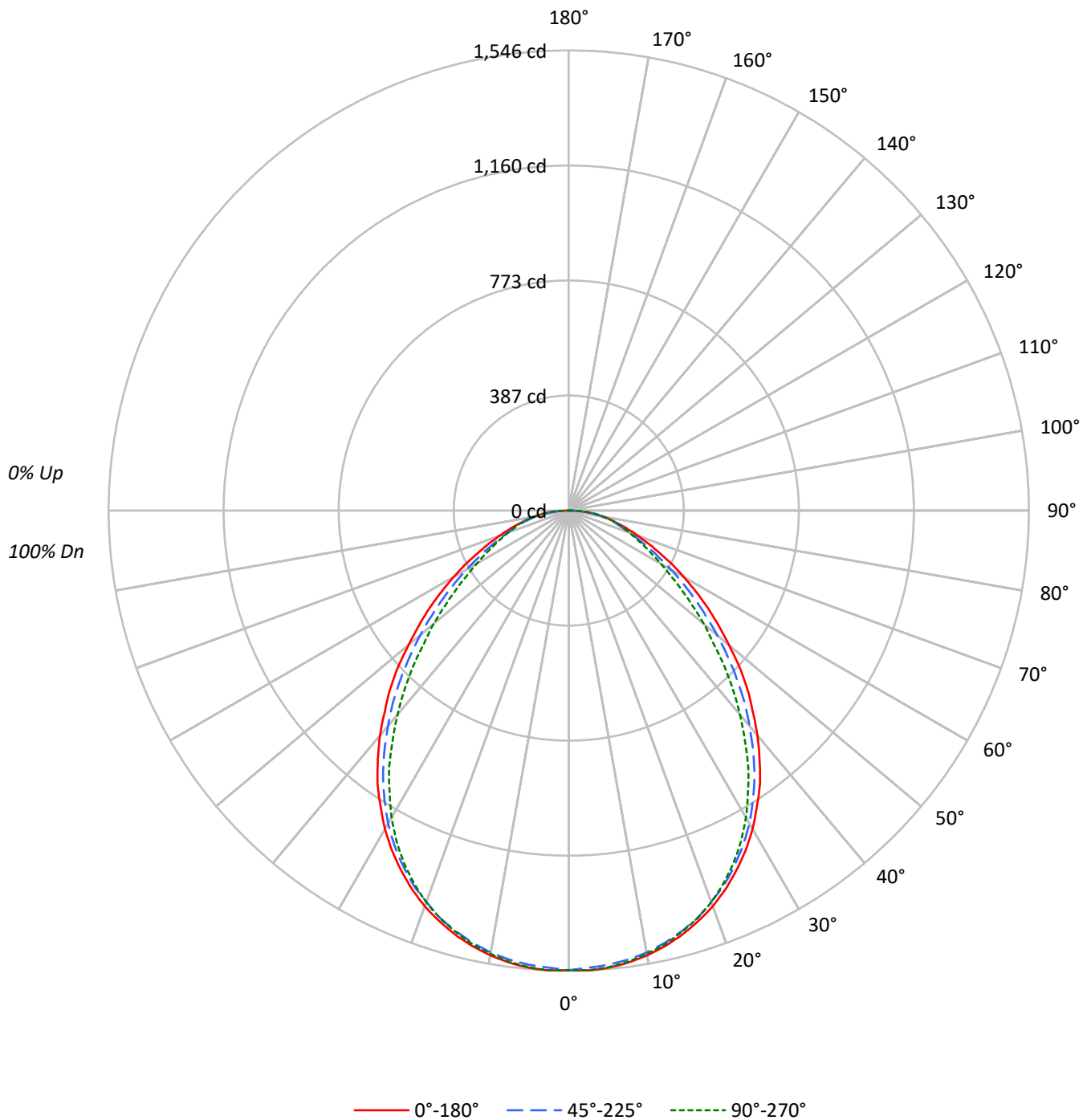
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4155	4155	4155
5°	4164	4138	4160
10°	4146	4119	4133
15°	4109	4077	4084
20°	4051	4007	4009
25°	3959	3911	3884
30°	3837	3772	3701
35°	3680	3573	3456
40°	3466	3318	3144
45°	3232	3037	2811
50°	2939	2725	2483
55°	2676	2416	2164
60°	2399	2128	1922
65°	2139	1896	1766
70°	1946	1729	1709
75°	1818	1683	1768
80°	1829	1740	1841
85°	1908	1785	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.2
10°-20°	413.9	11.9
20°-30°	606.9	17.5
30°-40°	677.4	19.5
40°-50°	613.3	17.7
50°-60°	463.1	13.4
60°-70°	302.7	8.7
70°-80°	177.8	5.1
80°-90°	65.1	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°	1166.8	33.7
0°-40°	1844.2	53.2
0°-60°	2920.5	84.3
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1542	1538	1532	1541	1540	146
15°	1475	1472	1464	1472	1466	416
25°	1333	1328	1317	1315	1308	613
35°	1120	1110	1088	1063	1052	698
45°	849	836	798	755	739	653
55°	570	557	515	474	461	510
65°	336	325	298	281	277	337
75°	175	170	162	165	170	188
85°	62	59	58	65	66	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.1	1544.1	1544.1	1544.1	1544.1
2.5°	1546.5	1544.1	1536.8	1546.5	1545.7
5°	1541.6	1538.4	1531.9	1540.8	1540.0
7.5°	1531.9	1528.6	1522.1	1530.3	1528.6
10°	1517.2	1514.0	1507.5	1516.4	1512.4
12.5°	1498.5	1495.3	1487.9	1496.1	1492.8
15°	1474.9	1472.5	1463.5	1471.7	1466.0
17.5°	1446.5	1442.4	1435.9	1440.8	1436.7
20°	1414.7	1409.8	1399.3	1404.2	1400.1
22.5°	1376.5	1370.0	1362.7	1362.7	1357.0
25°	1333.4	1328.5	1317.1	1314.7	1308.2
27.5°	1287.0	1282.9	1268.3	1264.2	1252.8
30°	1234.9	1229.2	1213.8	1200.8	1191.0
32.5°	1177.2	1173.1	1152.0	1134.9	1121.0
35°	1120.2	1110.5	1087.7	1063.3	1051.9
37.5°	1053.5	1046.2	1017.7	987.6	972.2
40°	986.8	977.9	944.5	911.2	894.9
42.5°	914.4	906.3	874.5	834.7	817.6
45°	849.3	836.3	798.1	755.0	738.7
47.5°	777.7	763.9	723.2	677.7	659.0
50°	702.1	693.1	650.8	606.9	593.1
52.5°	634.6	620.7	580.9	537.7	523.1
55°	570.3	557.3	515.0	474.3	461.3
57.5°	506.0	491.4	454.8	418.2	405.1
60°	445.8	431.2	395.4	365.3	357.1
62.5°	391.3	375.0	343.3	319.7	314.0
65°	336.0	325.4	297.8	280.7	277.4
67.5°	289.6	276.6	254.6	246.5	244.9
70°	247.3	238.4	219.7	217.2	217.2
72.5°	209.1	201.8	187.9	189.6	192.0
75°	174.9	170.0	161.9	165.1	170.0
77.5°	145.6	140.7	135.9	140.7	144.0
80°	118.0	113.1	112.3	116.3	118.8
82.5°	88.7	84.6	85.4	91.9	94.4
85°	61.8	59.4	57.8	65.1	65.9
87.5°	31.7	30.1	29.3	35.0	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)