

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: P290725

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3103.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

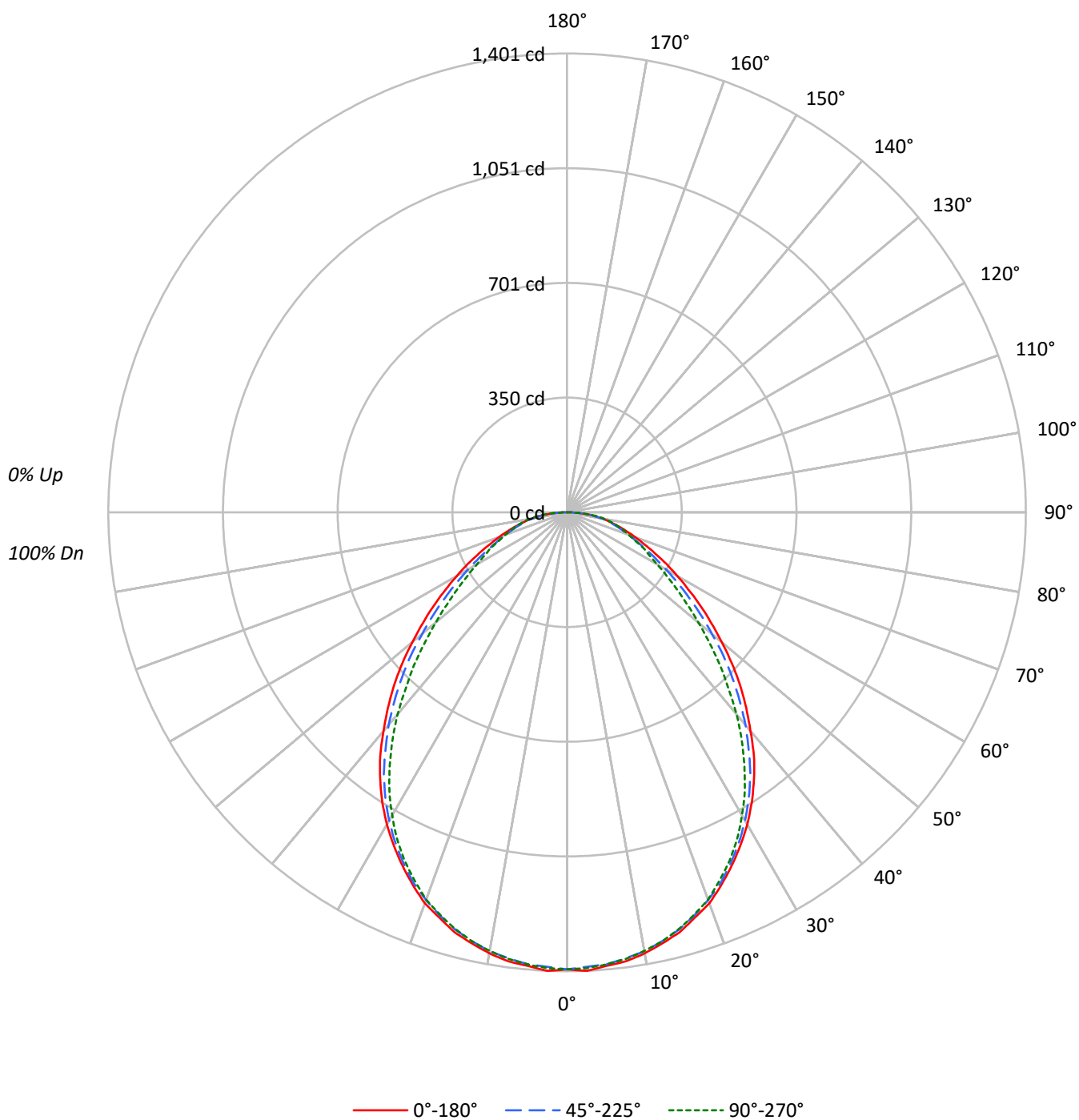
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	3755	3755	3755
5°	3754	3741	3743
10°	3735	3718	3716
15°	3697	3676	3670
20°	3638	3607	3603
25°	3533	3510	3485
30°	3419	3377	3320
35°	3269	3206	3100
40°	3061	2976	2828
45°	2842	2715	2517
50°	2579	2418	2192
55°	2333	2136	1916
60°	2094	1872	1707
65°	1880	1671	1635
70°	1735	1555	1573
75°	1656	1561	1649
80°	1675	1664	1796
85°	1735	1714	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	4.2
10°-20°	372.4	12.0
20°-30°	543.9	17.5
30°-40°	606.1	19.5
40°-50°	546.1	17.6
50°-60°	408.2	13.2
60°-70°	269.3	8.7
70°-80°	164.4	5.3
80°-90°	61.0	2.0
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°	1048.1	33.8
0°-40°	1654.1	53.3
0°-60°	2608.4	84.1
0°-90°	3103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1390	1388	1385	1392	1386	132
15°	1327	1322	1319	1327	1317	374
25°	1190	1186	1182	1184	1174	548
35°	995	986	976	959	944	620
45°	747	739	713	681	662	575
55°	497	489	455	418	408	445
65°	295	286	262	252	257	296
75°	159	156	150	155	159	170
85°	56	54	56	61	62	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.5	1395.5	1395.5	1395.5	1395.5
2.5°	1401.2	1394.8	1389.1	1397.6	1392.7
5°	1389.8	1388.4	1384.8	1391.9	1385.5
7.5°	1382.7	1377.7	1373.4	1382.0	1374.9
10°	1367.0	1364.2	1360.6	1367.8	1359.9
12.5°	1347.8	1345.0	1341.4	1350.0	1341.4
15°	1327.2	1322.2	1319.4	1327.2	1317.3
17.5°	1297.3	1295.2	1290.9	1298.8	1288.8
20°	1270.3	1262.5	1259.6	1265.3	1258.2
22.5°	1231.2	1225.5	1224.8	1228.4	1216.3
25°	1189.9	1185.7	1182.1	1184.3	1173.6
27.5°	1146.6	1140.9	1136.6	1135.9	1124.5
30°	1100.3	1093.2	1086.8	1081.1	1068.3
32.5°	1049.8	1041.3	1032.8	1023.5	1010.0
35°	995.1	986.5	975.9	958.8	943.8
37.5°	937.4	927.5	910.4	890.5	875.6
40°	871.3	866.3	847.1	821.5	805.1
42.5°	809.4	803.7	779.5	751.1	729.0
45°	746.8	739.0	713.4	680.7	661.5
47.5°	682.8	675.0	646.5	606.0	588.9
50°	616.0	611.7	577.5	540.6	523.5
52.5°	554.8	549.8	515.0	478.0	462.3
55°	497.2	489.3	455.2	417.5	408.3
57.5°	439.6	431.0	399.0	367.0	360.6
60°	389.1	378.4	347.8	322.9	317.2
62.5°	341.4	329.3	303.7	284.5	281.7
65°	295.2	285.9	262.5	251.8	256.8
67.5°	255.3	246.1	229.0	224.8	223.3
70°	220.5	212.0	197.7	199.2	199.9
72.5°	188.5	183.5	172.8	176.4	179.2
75°	159.3	156.5	150.1	155.1	158.6
77.5°	133.0	130.9	128.0	132.3	138.0
80°	108.1	106.7	107.4	110.2	115.9
82.5°	83.2	80.4	82.5	88.2	91.8
85°	56.2	54.1	55.5	61.2	61.9
87.5°	26.3	26.3	25.6	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)