

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: P290721

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290721
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

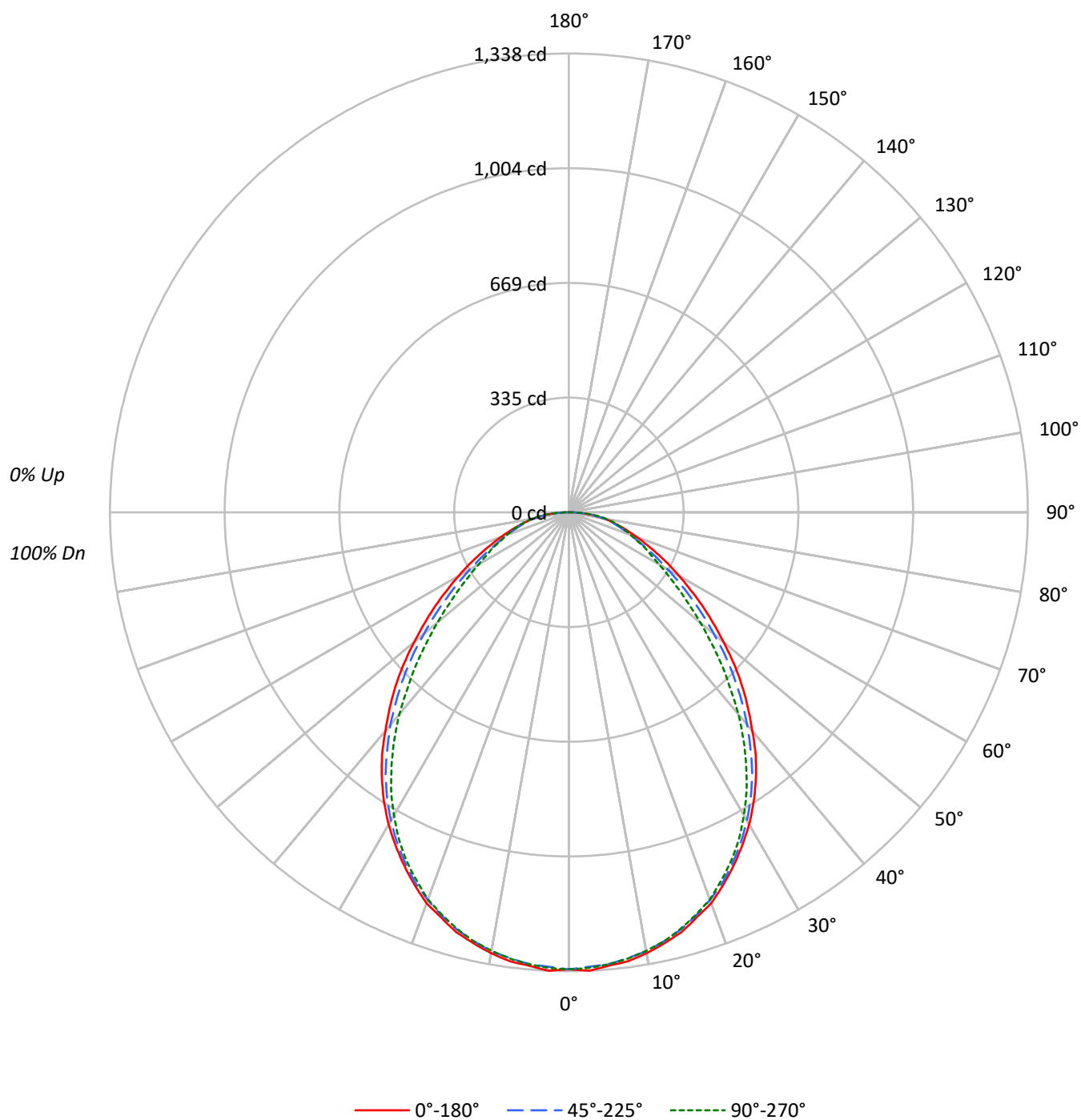
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3586	3586	3586
5°	3585	3572	3574
10°	3567	3550	3548
15°	3531	3510	3504
20°	3474	3444	3441
25°	3374	3352	3327
30°	3265	3225	3170
35°	3121	3061	2961
40°	2923	2842	2701
45°	2714	2592	2404
50°	2462	2309	2093
55°	2227	2039	1829
60°	1999	1787	1630
65°	1795	1596	1561
70°	1656	1485	1501
75°	1581	1490	1575
80°	1599	1590	1715
85°	1658	1636	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	4.2
10°-20°	355.6	12.0
20°-30°	519.4	17.5
30°-40°	578.7	19.5
40°-50°	521.4	17.6
50°-60°	389.8	13.2
60°-70°	257.1	8.7
70°-80°	157.0	5.3
80°-90°	58.2	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°	1000.8	33.8
0°-40°	1579.5	53.3
0°-60°	2490.7	84.1
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1327	1326	1322	1329	1323	126
15°	1267	1263	1260	1267	1258	357
25°	1136	1132	1129	1131	1121	523
35°	950	942	932	916	901	592
45°	713	706	681	650	632	549
55°	475	467	435	399	390	425
65°	282	273	251	240	245	283
75°	152	149	143	148	152	162
85°	54	52	53	58	59	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1338.0	1331.9	1326.4	1334.6	1329.8
5°	1327.1	1325.7	1322.3	1329.1	1323.0
7.5°	1320.3	1315.6	1311.5	1319.6	1312.8
10°	1305.4	1302.7	1299.3	1306.0	1298.6
12.5°	1287.0	1284.3	1280.9	1289.1	1280.9
15°	1267.3	1262.6	1259.9	1267.3	1257.8
17.5°	1238.8	1236.8	1232.7	1240.2	1230.7
20°	1213.0	1205.5	1202.8	1208.2	1201.5
22.5°	1175.6	1170.2	1169.5	1172.9	1161.4
25°	1136.3	1132.2	1128.8	1130.8	1120.6
27.5°	1094.8	1089.4	1085.3	1084.6	1073.8
30°	1050.7	1043.9	1037.8	1032.3	1020.1
32.5°	1002.5	994.3	986.2	977.3	964.4
35°	950.2	942.0	931.8	915.5	901.3
37.5°	895.1	885.6	869.3	850.3	836.1
40°	832.0	827.2	808.9	784.4	768.8
42.5°	772.9	767.5	744.4	717.2	696.2
45°	713.1	705.7	681.2	650.0	631.6
47.5°	652.0	644.5	617.4	578.7	562.4
50°	588.2	584.1	551.5	516.2	499.9
52.5°	529.8	525.0	491.7	456.4	441.5
55°	474.7	467.3	434.7	398.7	389.8
57.5°	419.7	411.6	381.0	350.5	344.3
60°	371.5	361.3	332.1	308.3	302.9
62.5°	326.0	314.5	290.0	271.7	269.0
65°	281.9	273.0	250.6	240.4	245.2
67.5°	243.8	235.0	218.7	214.6	213.3
70°	210.5	202.4	188.8	190.2	190.8
72.5°	180.0	175.2	165.0	168.4	171.2
75°	152.1	149.4	143.3	148.1	151.5
77.5°	127.0	125.0	122.3	126.3	131.8
80°	103.2	101.9	102.6	105.3	110.7
82.5°	79.5	76.7	78.8	84.2	87.6
85°	53.7	51.6	53.0	58.4	59.1
87.5°	25.1	25.1	24.5	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)