

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: P290716

Luminaire Tested: **14GR-LD5-28-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290716
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-LD5-28-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: 2734.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

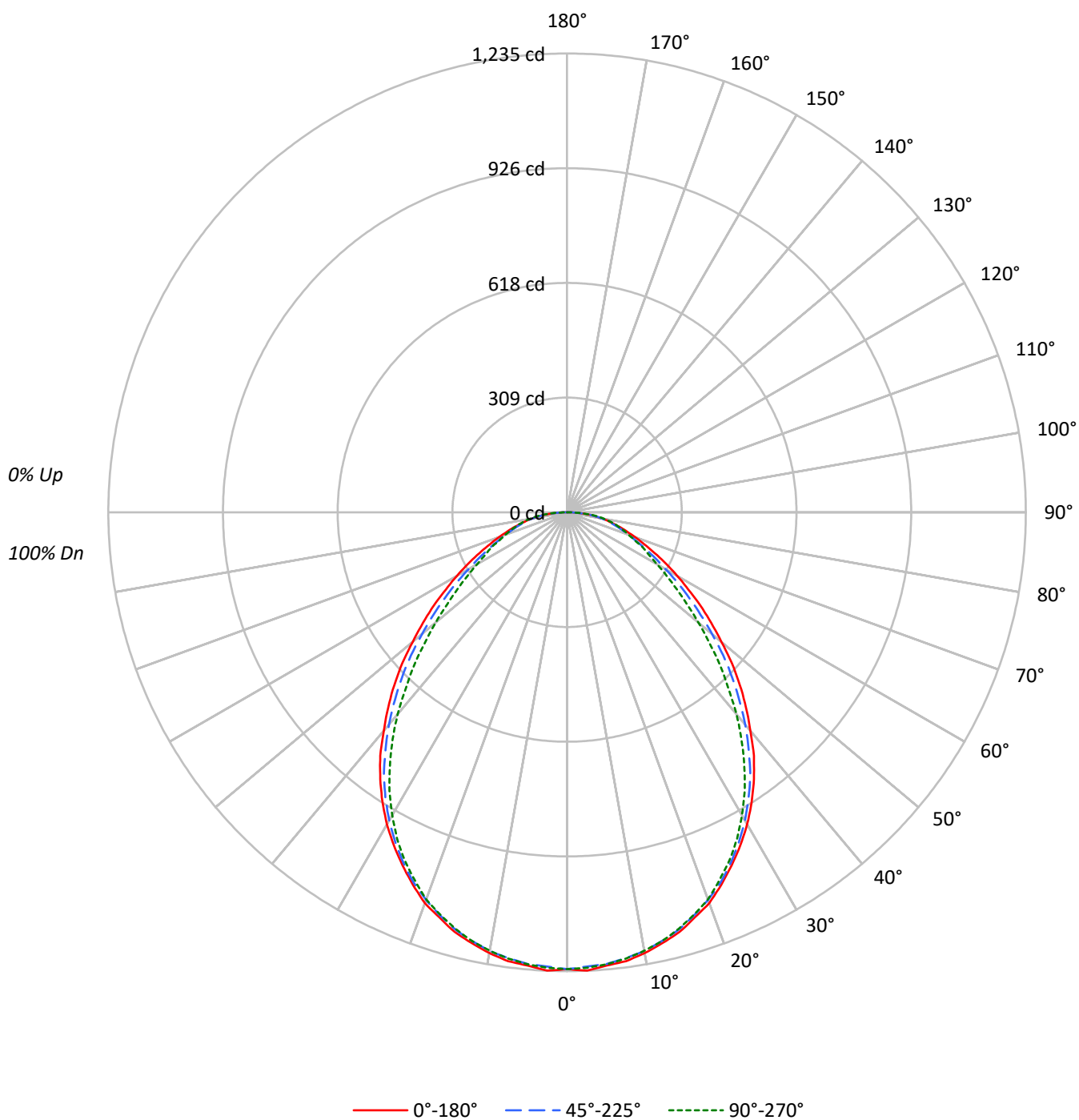
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3309	3309	3309
5°	3308	3296	3298
10°	3291	3276	3274
15°	3258	3239	3233
20°	3205	3178	3175
25°	3113	3092	3070
30°	3013	2976	2925
35°	2880	2825	2732
40°	2697	2622	2492
45°	2504	2392	2218
50°	2272	2130	1931
55°	2055	1882	1688
60°	1845	1649	1504
65°	1656	1472	1440
70°	1529	1371	1386
75°	1460	1375	1452
80°	1477	1466	1582
85°	1528	1510	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	4.2
10°-20°	328.1	12.0
20°-30°	479.2	17.5
30°-40°	534.0	19.5
40°-50°	481.1	17.6
50°-60°	359.7	13.2
60°-70°	237.2	8.7
70°-80°	144.8	5.3
80°-90°	53.7	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°	923.4	33.8
0°-40°	1457.4	53.3
0°-60°	2298.2	84.1
0°-90°	2734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1224	1223	1220	1226	1221	116
15°	1169	1165	1162	1169	1161	329
25°	1048	1045	1042	1043	1034	483
35°	877	869	860	845	832	547
45°	658	651	629	600	583	506
55°	438	431	401	368	360	392
65°	260	252	231	222	226	261
75°	140	138	132	137	140	150
85°	50	48	49	54	54	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1234.6	1228.9	1223.9	1231.4	1227.0
5°	1224.5	1223.3	1220.1	1226.4	1220.8
7.5°	1218.3	1213.9	1210.1	1217.6	1211.4
10°	1204.5	1202.0	1198.8	1205.1	1198.2
12.5°	1187.6	1185.1	1181.9	1189.4	1181.9
15°	1169.4	1165.0	1162.5	1169.4	1160.6
17.5°	1143.1	1141.2	1137.4	1144.3	1135.5
20°	1119.3	1112.4	1109.9	1114.9	1108.6
22.5°	1084.8	1079.8	1079.1	1082.3	1071.6
25°	1048.4	1044.7	1041.5	1043.4	1034.0
27.5°	1010.2	1005.2	1001.4	1000.8	990.8
30°	969.5	963.2	957.6	952.6	941.3
32.5°	925.0	917.5	909.9	901.8	889.9
35°	876.7	869.2	859.8	844.8	831.6
37.5°	826.0	817.2	802.2	784.6	771.4
40°	767.7	763.3	746.4	723.8	709.4
42.5°	713.2	708.1	686.8	661.8	642.3
45°	658.0	651.1	628.6	599.7	582.8
47.5°	601.6	594.7	569.7	533.9	518.9
50°	542.7	538.9	508.9	476.3	461.2
52.5°	488.8	484.4	453.7	421.1	407.3
55°	438.1	431.2	401.1	367.9	359.7
57.5°	387.3	379.8	351.6	323.4	317.7
60°	342.8	333.4	306.4	284.5	279.5
62.5°	300.8	290.2	267.6	250.7	248.2
65°	260.1	251.9	231.2	221.8	226.2
67.5°	225.0	216.8	201.8	198.0	196.8
70°	194.3	186.8	174.2	175.5	176.1
72.5°	166.1	161.7	152.3	155.4	157.9
75°	140.4	137.9	132.2	136.6	139.7
77.5°	117.2	115.3	112.8	116.6	121.6
80°	95.3	94.0	94.6	97.1	102.1
82.5°	73.3	70.8	72.7	77.7	80.8
85°	49.5	47.6	48.9	53.9	54.5
87.5°	23.2	23.2	22.6	26.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)