

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: P290718

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290718
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2665.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

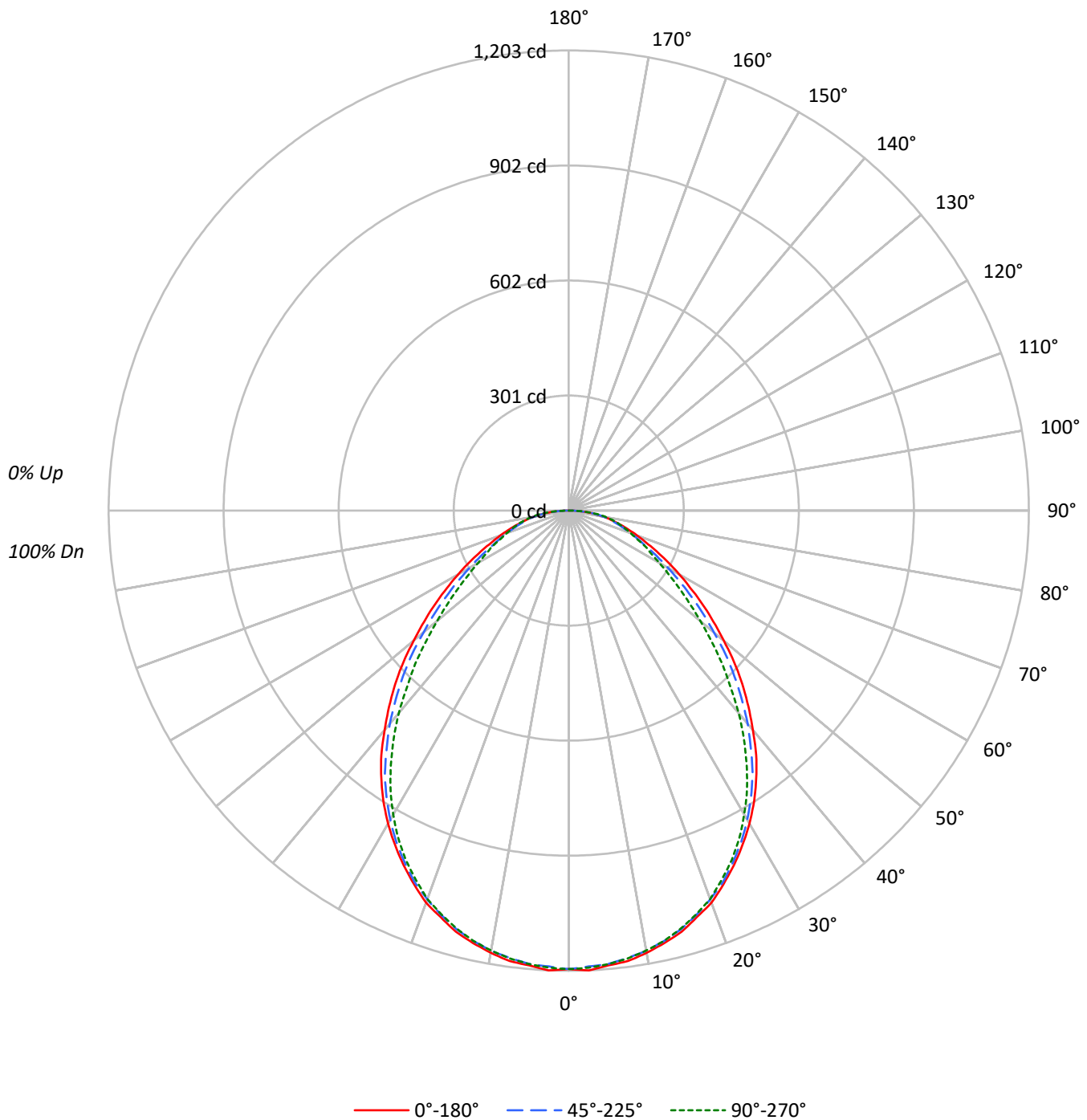
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3225	3225	3225
5°	3224	3213	3214
10°	3208	3193	3192
15°	3176	3157	3152
20°	3124	3098	3094
25°	3034	3015	2993
30°	2936	2900	2851
35°	2807	2753	2663
40°	2629	2556	2429
45°	2441	2332	2162
50°	2215	2076	1882
55°	2003	1834	1645
60°	1798	1608	1466
65°	1614	1435	1404
70°	1490	1336	1351
75°	1422	1340	1416
80°	1440	1429	1543
85°	1491	1470	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	4.2
10°-20°	319.9	12.0
20°-30°	467.1	17.5
30°-40°	520.5	19.5
40°-50°	469.0	17.6
50°-60°	350.6	13.2
60°-70°	231.2	8.7
70°-80°	141.2	5.3
80°-90°	52.4	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°	900.1	33.8
0°-40°	1420.6	53.3
0°-60°	2240.2	84.1
0°-90°	2665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1194	1192	1189	1196	1190	113
15°	1140	1136	1133	1140	1131	321
25°	1022	1018	1015	1017	1008	470
35°	855	847	838	823	811	533
45°	641	635	613	585	568	494
55°	427	420	391	359	351	382
65°	254	246	225	216	220	254
75°	137	134	129	133	136	146
85°	48	46	48	52	53	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1203.4	1197.9	1193.0	1200.4	1196.1
5°	1193.6	1192.4	1189.4	1195.5	1190.0
7.5°	1187.5	1183.2	1179.6	1186.9	1180.8
10°	1174.1	1171.6	1168.6	1174.7	1168.0
12.5°	1157.6	1155.1	1152.1	1159.4	1152.1
15°	1139.9	1135.6	1133.2	1139.9	1131.3
17.5°	1114.2	1112.4	1108.7	1115.4	1106.9
20°	1091.0	1084.3	1081.8	1086.7	1080.6
22.5°	1057.4	1052.5	1051.9	1055.0	1044.6
25°	1022.0	1018.3	1015.3	1017.1	1007.9
27.5°	984.7	979.8	976.2	975.6	965.8
30°	945.0	938.9	933.4	928.5	917.5
32.5°	901.6	894.3	887.0	879.0	867.4
35°	854.6	847.3	838.1	823.4	810.6
37.5°	805.1	796.6	781.9	764.8	752.0
40°	748.3	744.0	727.5	705.5	691.5
42.5°	695.2	690.3	669.5	645.1	626.1
45°	641.4	634.7	612.7	584.6	568.1
47.5°	586.4	579.7	555.3	520.5	505.8
50°	529.0	525.3	496.0	464.3	449.6
52.5°	476.5	472.2	442.3	410.5	397.1
55°	427.0	420.3	391.0	358.6	350.6
57.5°	377.5	370.2	342.7	315.2	309.7
60°	334.1	325.0	298.7	277.3	272.4
62.5°	293.2	282.8	260.8	244.3	241.9
65°	253.5	245.6	225.4	216.2	220.5
67.5°	219.3	211.4	196.7	193.0	191.8
70°	189.4	182.0	169.8	171.0	171.7
72.5°	161.9	157.6	148.4	151.5	153.9
75°	136.8	134.4	128.9	133.2	136.2
77.5°	114.2	112.4	110.0	113.6	118.5
80°	92.9	91.6	92.2	94.7	99.6
82.5°	71.5	69.0	70.9	75.7	78.8
85°	48.3	46.4	47.6	52.5	53.1
87.5°	22.6	22.6	22.0	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)