

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: P290713

Luminaire Tested: **14GR-LD5-28-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290713
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2663.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

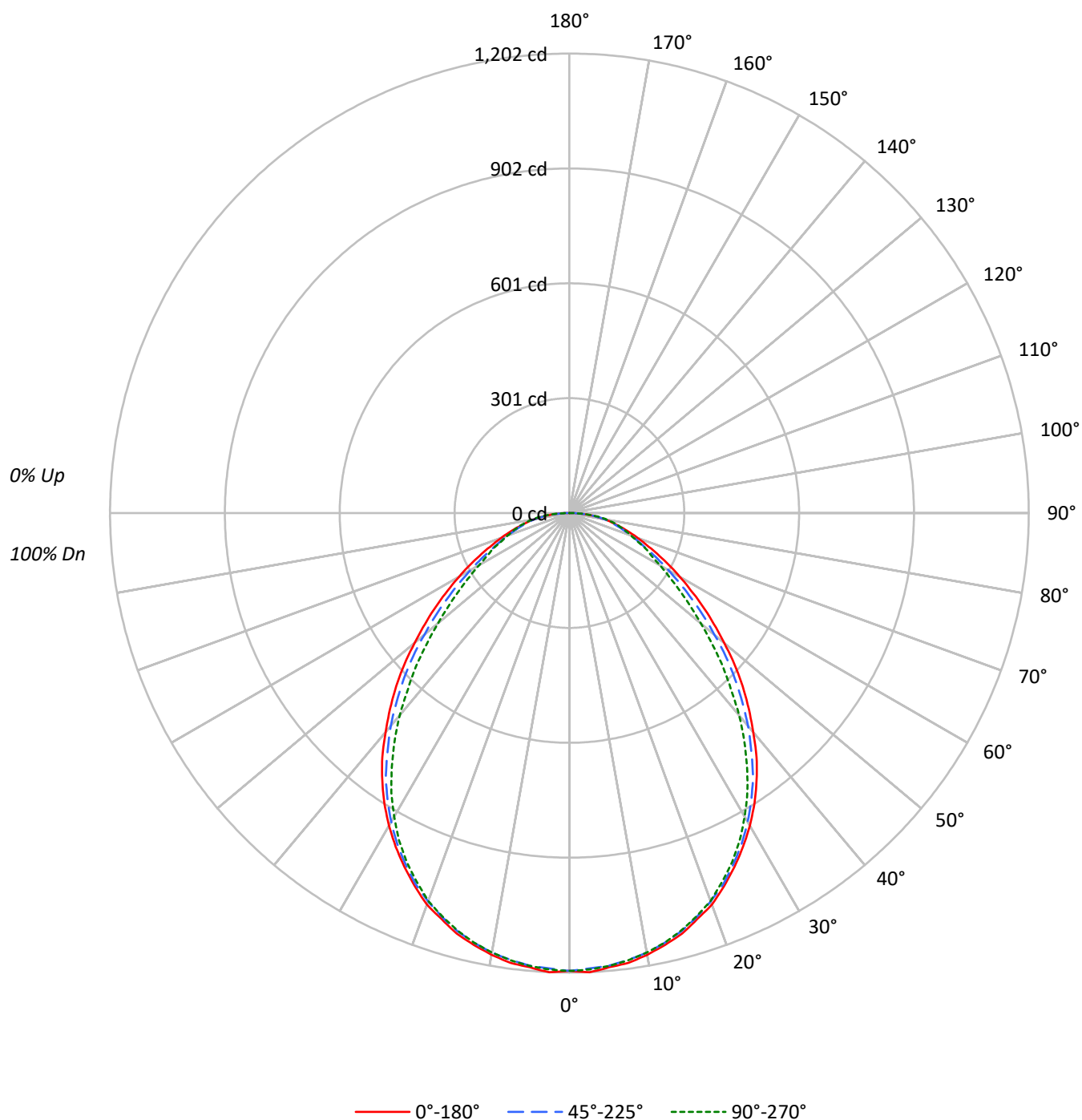
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	57			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	61	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			52	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3223	3223	3223
5°	3222	3210	3212
10°	3206	3191	3189
15°	3173	3154	3149
20°	3122	3096	3092
25°	3032	3012	2991
30°	2934	2898	2849
35°	2805	2751	2661
40°	2627	2554	2427
45°	2439	2330	2160
50°	2213	2075	1881
55°	2002	1833	1644
60°	1797	1607	1465
65°	1613	1434	1403
70°	1489	1335	1349
75°	1421	1339	1415
80°	1438	1429	1542
85°	1488	1470	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	4.2
10°-20°	319.6	12.0
20°-30°	466.8	17.5
30°-40°	520.1	19.5
40°-50°	468.6	17.6
50°-60°	350.3	13.2
60°-70°	231.1	8.7
70°-80°	141.1	5.3
80°-90°	52.3	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°	899.5	33.8
0°-40°	1419.6	53.3
0°-60°	2238.5	84.1
0°-90°	2663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1193	1192	1188	1195	1189	113
15°	1139	1135	1132	1139	1130	321
25°	1021	1018	1014	1016	1007	470
35°	854	847	838	823	810	532
45°	641	634	612	584	568	493
55°	427	420	391	358	350	382
65°	253	245	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°	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1202.5	1197.0	1192.1	1199.4	1195.2
5°	1192.7	1191.5	1188.5	1194.6	1189.1
7.5°	1186.6	1182.4	1178.7	1186.0	1179.9
10°	1173.2	1170.8	1167.7	1173.8	1167.1
12.5°	1156.7	1154.3	1151.2	1158.6	1151.2
15°	1139.0	1134.7	1132.3	1139.0	1130.5
17.5°	1113.4	1111.6	1107.9	1114.6	1106.1
20°	1090.2	1083.5	1081.0	1085.9	1079.8
22.5°	1056.6	1051.7	1051.1	1054.2	1043.8
25°	1021.2	1017.5	1014.5	1016.3	1007.2
27.5°	984.0	979.1	975.4	974.8	965.1
30°	944.3	938.2	932.7	927.8	916.8
32.5°	901.0	893.6	886.3	878.4	866.8
35°	854.0	846.6	837.5	822.8	810.0
37.5°	804.5	796.0	781.3	764.2	751.4
40°	747.7	743.5	727.0	705.0	691.0
42.5°	694.6	689.8	669.0	644.6	625.7
45°	640.9	634.2	612.2	584.2	567.7
47.5°	586.0	579.3	554.9	520.1	505.4
50°	528.6	524.9	495.7	463.9	449.3
52.5°	476.1	471.8	441.9	410.2	396.8
55°	426.7	420.0	390.7	358.3	350.4
57.5°	377.2	369.9	342.4	315.0	309.5
60°	333.9	324.7	298.5	277.1	272.2
62.5°	293.0	282.6	260.6	244.2	241.7
65°	253.3	245.4	225.2	216.1	220.4
67.5°	219.1	211.2	196.6	192.9	191.7
70°	189.2	181.9	169.7	170.9	171.5
72.5°	161.8	157.5	148.3	151.4	153.8
75°	136.7	134.3	128.8	133.1	136.1
77.5°	114.1	112.3	109.9	113.5	118.4
80°	92.8	91.6	92.2	94.6	99.5
82.5°	71.4	69.0	70.8	75.7	78.7
85°	48.2	46.4	47.6	52.5	53.1
87.5°	22.6	22.6	22.0	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)