

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: P290864

Luminaire Tested: **14GR-LD5-28-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2691.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

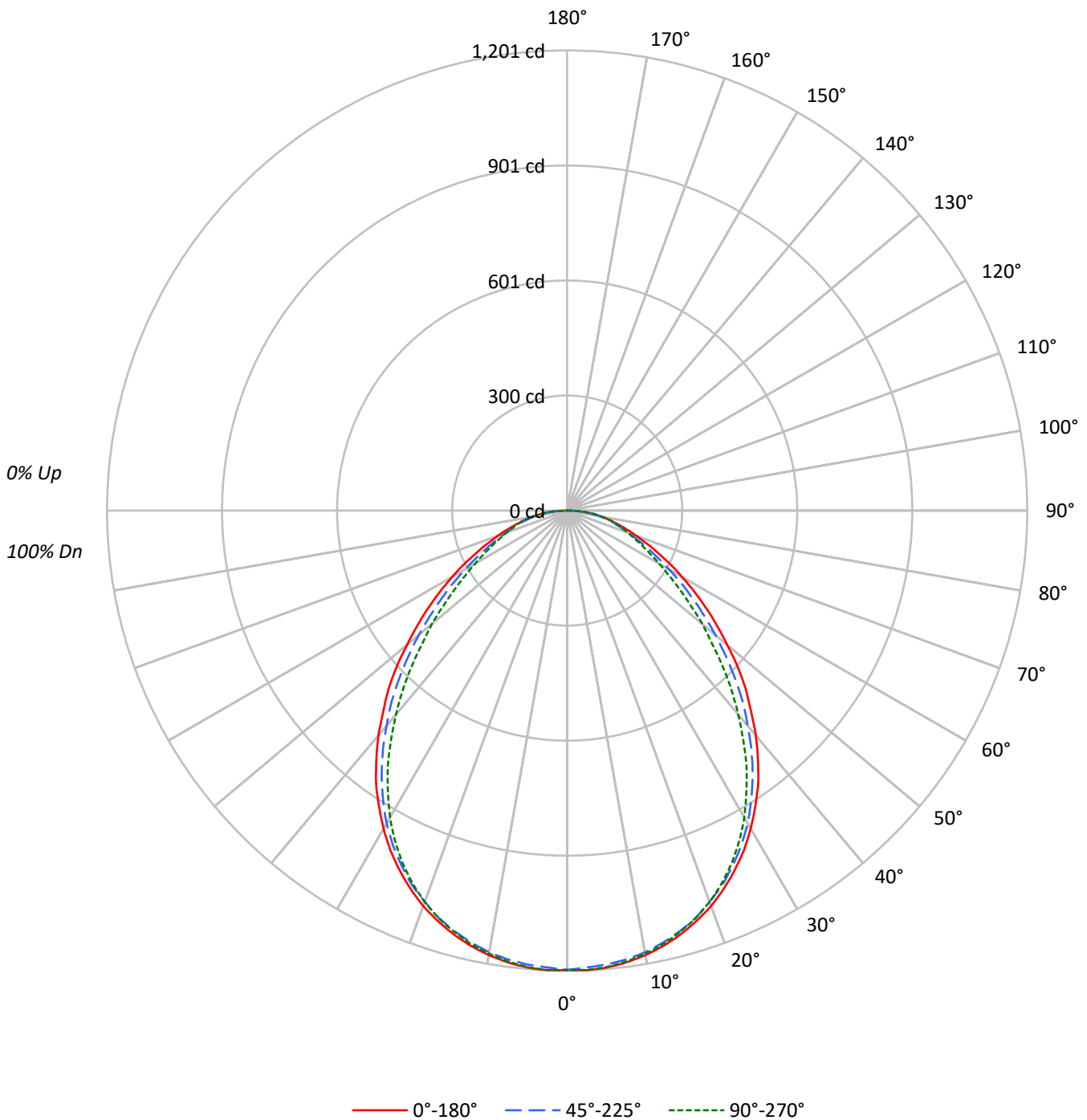
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3226	3226	3226
5°	3233	3213	3230
10°	3219	3198	3208
15°	3190	3166	3171
20°	3145	3111	3113
25°	3074	3036	3016
30°	2979	2928	2873
35°	2857	2774	2683
40°	2692	2576	2441
45°	2509	2358	2183
50°	2282	2115	1928
55°	2077	1876	1680
60°	1863	1652	1492
65°	1661	1472	1372
70°	1511	1341	1327
75°	1412	1307	1372
80°	1420	1351	1429
85°	1482	1383	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	4.2
10°-20°	321.4	11.9
20°-30°	471.2	17.5
30°-40°	525.9	19.5
40°-50°	476.1	17.7
50°-60°	359.5	13.4
60°-70°	235.0	8.7
70°-80°	138.0	5.1
80°-90°	50.5	1.9
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°	905.9	33.7
0°-40°	1431.8	53.2
0°-60°	2267.4	84.3
0°-90°	2691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1197	1194	1189	1196	1196	114
15°	1145	1143	1136	1143	1138	323
25°	1035	1031	1023	1021	1016	476
35°	870	862	844	826	817	542
45°	659	649	620	586	574	507
55°	443	433	400	368	358	396
65°	261	253	231	218	215	262
75°	136	132	126	128	132	146
85°	48	46	45	50	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.8	1198.8	1198.8	1198.8	1198.8
2.5°	1200.7	1198.8	1193.1	1200.7	1200.1
5°	1196.9	1194.4	1189.3	1196.3	1195.7
7.5°	1189.3	1186.8	1181.8	1188.1	1186.8
10°	1178.0	1175.5	1170.4	1177.3	1174.2
12.5°	1163.5	1160.9	1155.2	1161.6	1159.0
15°	1145.1	1143.2	1136.3	1142.6	1138.2
17.5°	1123.0	1119.9	1114.8	1118.6	1115.4
20°	1098.4	1094.6	1086.4	1090.2	1087.0
22.5°	1068.7	1063.7	1058.0	1058.0	1053.5
25°	1035.2	1031.4	1022.6	1020.7	1015.7
27.5°	999.2	996.1	984.7	981.5	972.7
30°	958.8	954.4	942.4	932.3	924.7
32.5°	914.0	910.8	894.4	881.1	870.4
35°	869.7	862.2	844.5	825.5	816.7
37.5°	818.0	812.3	790.2	766.8	754.8
40°	766.2	759.2	733.3	707.4	694.8
42.5°	709.9	703.6	679.0	648.0	634.8
45°	659.4	649.3	619.6	586.1	573.5
47.5°	603.8	593.1	561.5	526.1	511.6
50°	545.1	538.1	505.3	471.2	460.5
52.5°	492.7	481.9	451.0	417.5	406.1
55°	442.8	432.7	399.8	368.2	358.1
57.5°	392.9	381.5	353.1	324.7	314.5
60°	346.1	334.8	307.0	283.6	277.3
62.5°	303.8	291.2	266.5	248.2	243.8
65°	260.9	252.6	231.2	217.9	215.4
67.5°	224.9	214.8	197.7	191.4	190.1
70°	192.0	185.1	170.5	168.6	168.6
72.5°	162.3	156.6	145.9	147.2	149.1
75°	135.8	132.0	125.7	128.2	132.0
77.5°	113.1	109.3	105.5	109.3	111.8
80°	91.6	87.8	87.2	90.3	92.2
82.5°	68.8	65.7	66.3	71.4	73.3
85°	48.0	46.1	44.8	50.5	51.2
87.5°	24.6	23.4	22.7	27.2	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)