

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: P290806

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290806
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2644.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

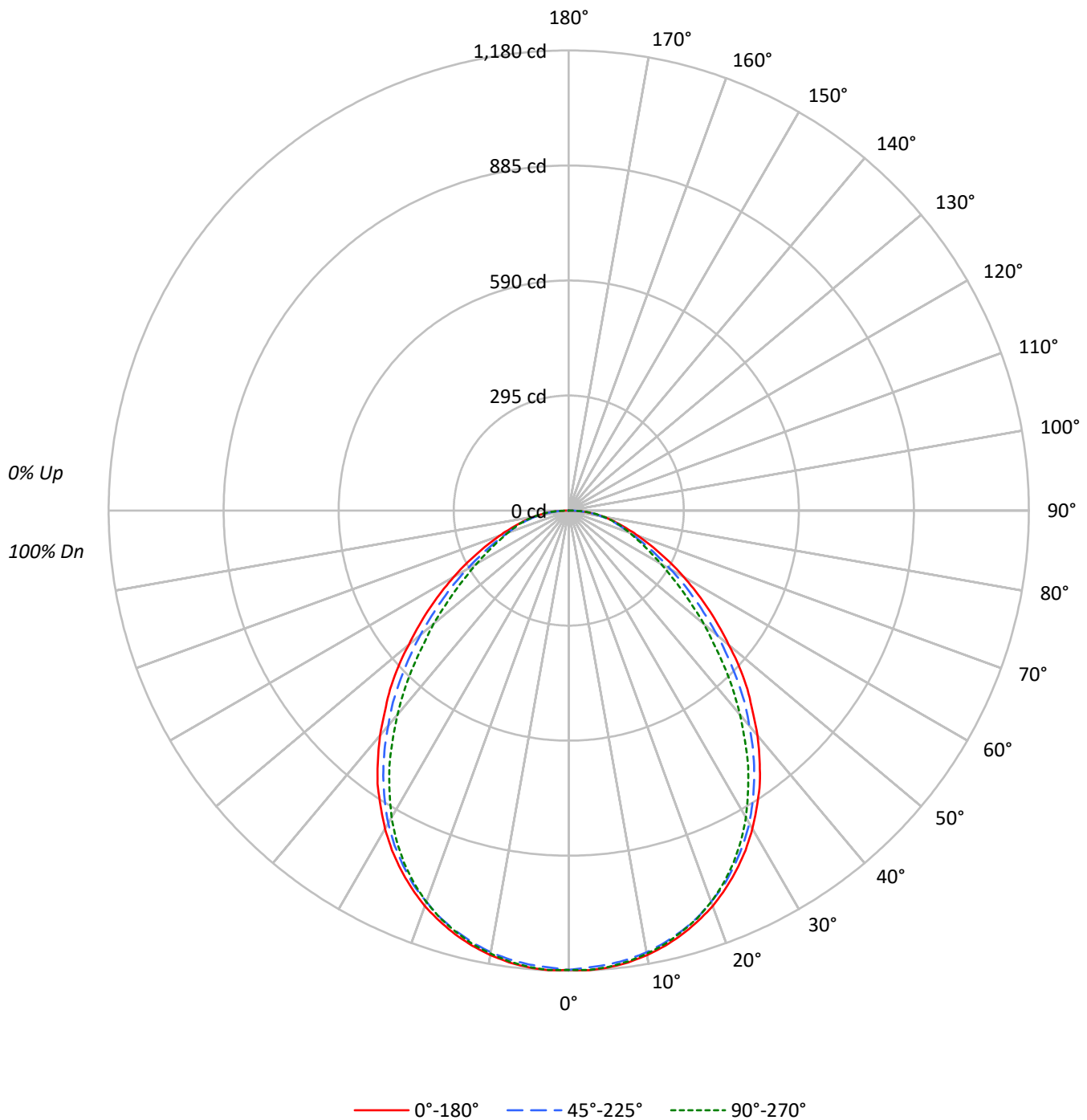
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	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		51	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°	3170	3170	3170
5°	3177	3157	3173
10°	3163	3142	3152
15°	3134	3110	3115
20°	3090	3057	3058
25°	3020	2983	2963
30°	2927	2877	2823
35°	2807	2726	2636
40°	2644	2531	2398
45°	2466	2317	2144
50°	2242	2079	1894
55°	2041	1843	1651
60°	1830	1623	1466
65°	1632	1446	1347
70°	1485	1319	1304
75°	1387	1284	1349
80°	1395	1327	1404
85°	1457	1362	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.2
10°-20°	315.7	11.9
20°-30°	463.0	17.5
30°-40°	516.7	19.5
40°-50°	467.8	17.7
50°-60°	353.2	13.4
60°-70°	230.9	8.7
70°-80°	135.6	5.1
80°-90°	49.6	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°	890.1	33.7
0°-40°	1406.8	53.2
0°-60°	2227.8	84.3
0°-90°	2644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1176	1174	1169	1175	1175	112
15°	1125	1123	1116	1123	1118	317
25°	1017	1013	1005	1003	998	468
35°	855	847	830	811	802	532
45°	648	638	609	576	564	498
55°	435	425	393	362	352	389
65°	256	248	227	214	212	257
75°	133	130	124	126	130	143
85°	47	45	44	50	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.9	1177.9	1177.9	1177.9	1177.9
2.5°	1179.7	1177.9	1172.3	1179.7	1179.1
5°	1176.0	1173.5	1168.6	1175.4	1174.8
7.5°	1168.6	1166.1	1161.1	1167.3	1166.1
10°	1157.4	1154.9	1150.0	1156.8	1153.7
12.5°	1143.1	1140.6	1135.1	1141.3	1138.8
15°	1125.1	1123.3	1116.4	1122.7	1118.3
17.5°	1103.4	1100.3	1095.3	1099.1	1096.0
20°	1079.2	1075.5	1067.4	1071.1	1068.0
22.5°	1050.0	1045.1	1039.5	1039.5	1035.1
25°	1017.2	1013.4	1004.7	1002.9	997.9
27.5°	981.8	978.7	967.5	964.4	955.7
30°	942.1	937.7	925.9	916.0	908.5
32.5°	898.0	894.9	878.8	865.7	855.2
35°	854.6	847.1	829.7	811.1	802.4
37.5°	803.7	798.1	776.4	753.4	741.6
40°	752.8	746.0	720.5	695.1	682.7
42.5°	697.5	691.3	667.1	636.7	623.7
45°	647.9	638.0	608.8	575.9	563.5
47.5°	593.3	582.7	551.7	517.0	502.7
50°	535.6	528.7	496.5	463.0	452.4
52.5°	484.1	473.5	443.1	410.2	399.0
55°	435.0	425.1	392.8	361.8	351.9
57.5°	386.0	374.8	346.9	319.0	309.1
60°	340.1	328.9	301.6	278.6	272.4
62.5°	298.5	286.1	261.9	243.9	239.5
65°	256.3	248.2	227.1	214.1	211.6
67.5°	220.9	211.0	194.2	188.0	186.8
70°	188.7	181.8	167.6	165.7	165.7
72.5°	159.5	153.9	143.4	144.6	146.5
75°	133.4	129.7	123.5	126.0	129.7
77.5°	111.1	107.4	103.6	107.4	109.8
80°	90.0	86.3	85.6	88.7	90.6
82.5°	67.6	64.5	65.2	70.1	72.0
85°	47.2	45.3	44.1	49.6	50.3
87.5°	24.2	23.0	22.3	26.7	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)