

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: P292039

Luminaire Tested: **22GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2679.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

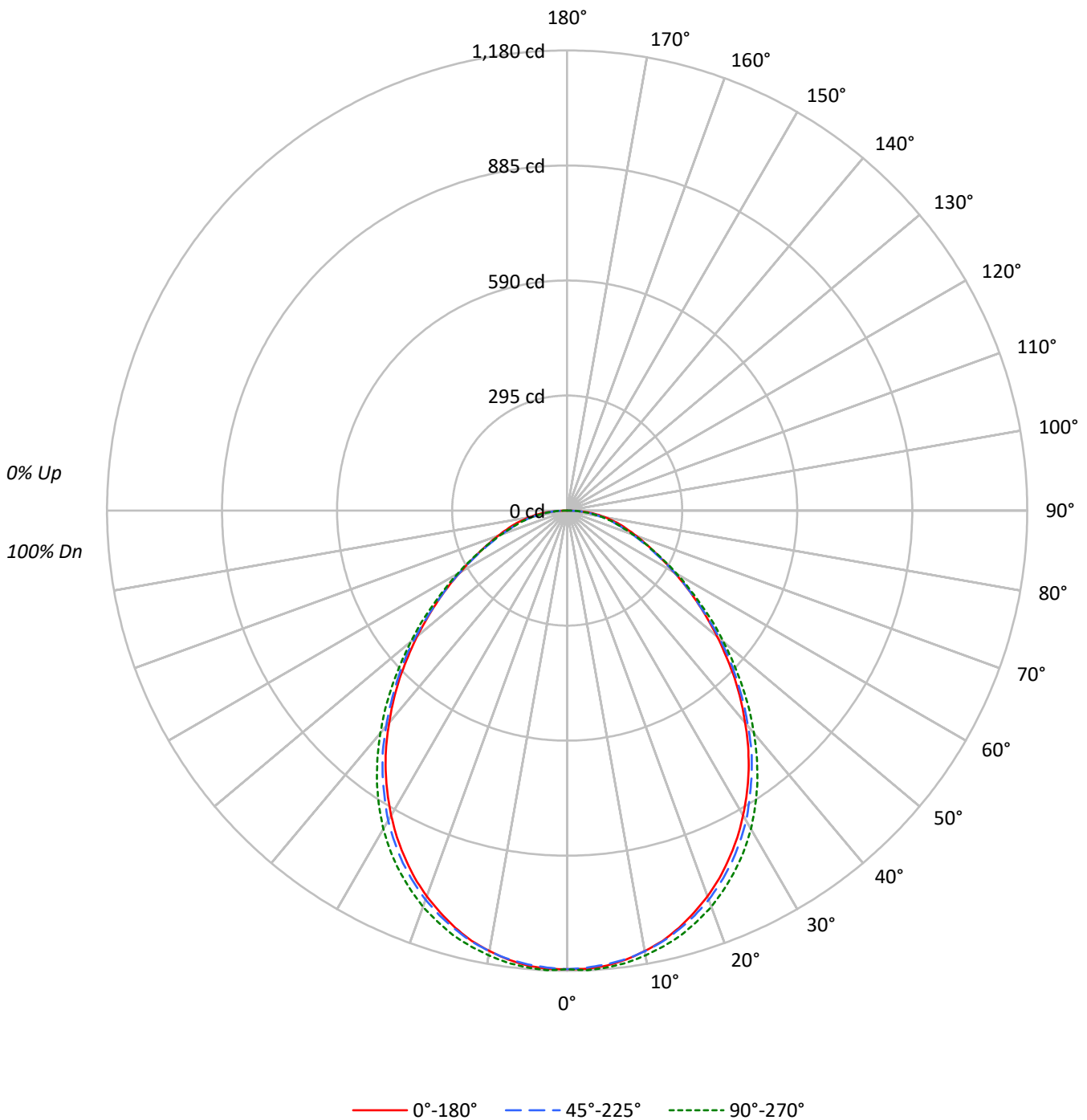
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3165	3165	3165
5°	3163	3155	3177
10°	3134	3136	3164
15°	3086	3096	3141
20°	3014	3040	3096
25°	2920	2961	3025
30°	2805	2853	2928
35°	2667	2710	2794
40°	2494	2535	2618
45°	2309	2344	2413
50°	2103	2136	2191
55°	1899	1904	1960
60°	1703	1709	1750
65°	1552	1520	1556
70°	1477	1394	1419
75°	1487	1344	1351
80°	1542	1358	1348
85°	1689	1439	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.1
10°-20°	313.9	11.7
20°-30°	459.4	17.1
30°-40°	516.5	19.3
40°-50°	476.3	17.8
50°-60°	367.1	13.7
60°-70°	242.3	9.0
70°-80°	141.0	5.3
80°-90°	51.4	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°	884.4	33.0
0°-40°	1400.9	52.3
0°-60°	2244.4	83.8
0°-90°	2679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1171	1169	1168	1174	1176	111
15°	1108	1108	1111	1121	1128	312
25°	983	988	997	1011	1019	452
35°	812	816	825	842	850	506
45°	607	607	616	628	634	467
55°	405	404	406	413	418	363
65°	244	242	239	241	244	244
75°	143	137	129	127	130	151
85°	55	54	47	43	44	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.1	1176.1	1176.1	1176.1	1176.1
2.5°	1176.1	1173.6	1173.0	1177.3	1179.8
5°	1171.1	1168.6	1168.0	1173.6	1176.1
7.5°	1161.2	1159.3	1159.9	1166.1	1169.3
10°	1146.9	1146.3	1147.5	1154.3	1158.1
12.5°	1130.1	1129.5	1132.0	1139.4	1144.4
15°	1107.7	1107.7	1111.4	1121.4	1127.6
17.5°	1081.0	1082.9	1088.4	1098.4	1105.2
20°	1052.4	1054.3	1061.7	1072.9	1081.0
22.5°	1020.7	1023.2	1030.6	1044.3	1051.1
25°	983.4	988.4	997.1	1010.7	1018.8
27.5°	944.9	950.4	958.5	975.3	982.8
30°	902.6	906.3	918.1	933.7	942.4
32.5°	857.8	861.6	871.5	890.2	897.6
35°	811.8	815.6	824.9	841.7	850.4
37.5°	762.1	765.2	776.4	789.4	798.8
40°	709.9	714.2	721.7	737.2	745.3
42.5°	658.9	660.8	668.9	684.4	690.6
45°	606.7	607.3	616.0	628.5	634.0
47.5°	552.6	553.9	564.4	571.9	577.5
50°	502.3	502.9	510.3	517.2	523.4
52.5°	451.9	451.9	455.6	463.1	471.2
55°	404.7	404.0	405.9	412.8	417.7
57.5°	359.9	359.3	361.8	366.1	369.9
60°	316.4	315.2	317.6	320.1	325.1
62.5°	277.9	279.1	276.0	279.7	283.5
65°	243.7	242.4	238.7	240.6	244.3
67.5°	214.5	212.6	206.4	207.6	212.0
70°	187.7	184.0	177.2	177.2	180.3
72.5°	163.5	159.8	151.1	151.7	152.9
75°	143.0	136.8	129.3	126.8	129.9
77.5°	120.6	115.6	108.8	106.9	108.2
80°	99.5	95.7	87.6	85.2	87.0
82.5°	78.9	75.8	66.5	64.6	65.3
85°	54.7	54.1	46.6	42.9	44.1
87.5°	29.2	29.8	24.2	21.8	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)