

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: P291982

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291982
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 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: 2678.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

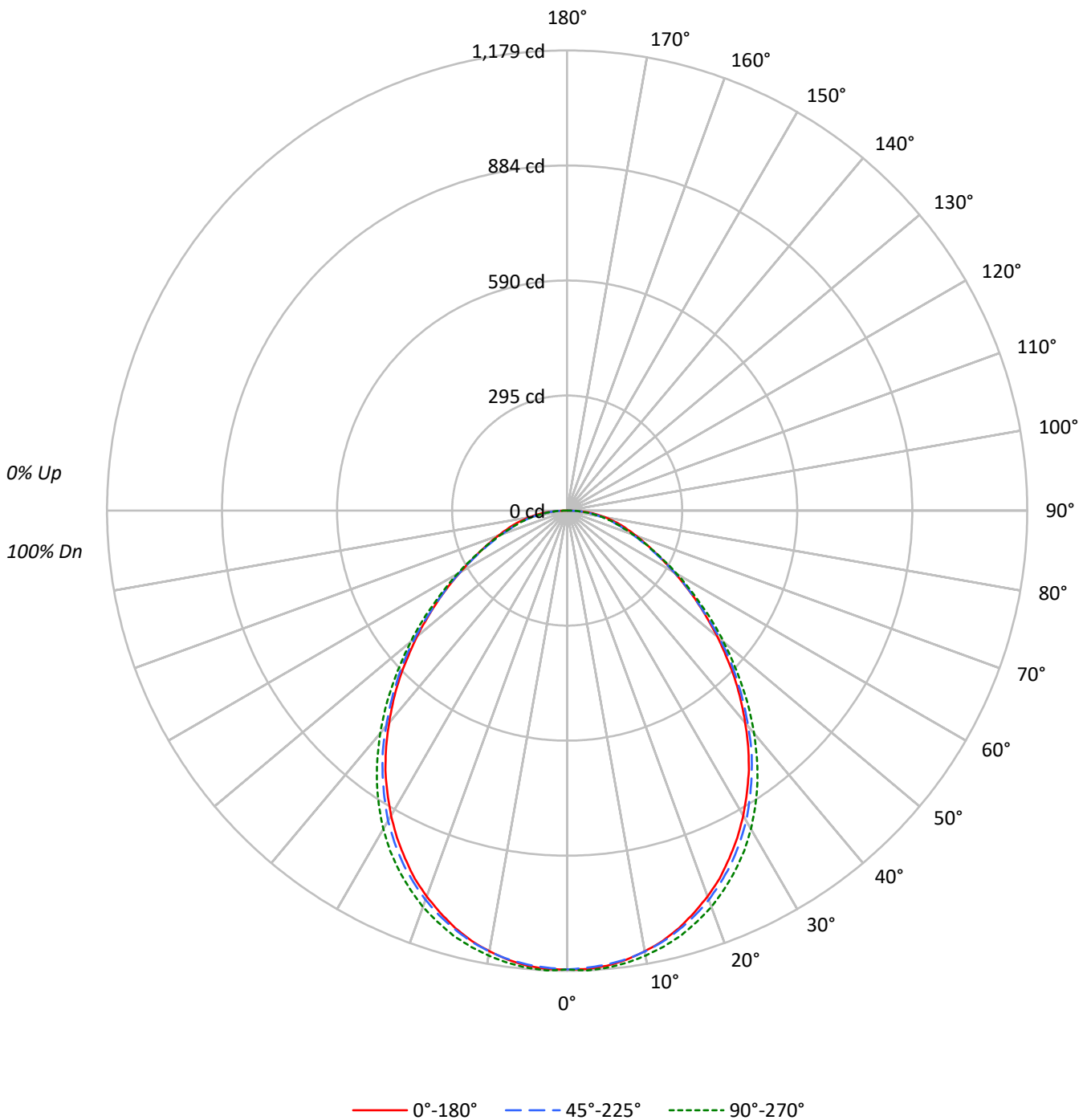
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3164	3164	3164
5°	3162	3154	3176
10°	3133	3134	3163
15°	3085	3095	3140
20°	3013	3039	3094
25°	2919	2959	3024
30°	2803	2852	2927
35°	2666	2709	2792
40°	2493	2534	2617
45°	2308	2343	2412
50°	2102	2136	2190
55°	1898	1904	1959
60°	1702	1709	1749
65°	1551	1519	1555
70°	1477	1393	1418
75°	1486	1343	1351
80°	1540	1358	1348
85°	1689	1439	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.1
10°-20°	313.8	11.7
20°-30°	459.2	17.1
30°-40°	516.3	19.3
40°-50°	476.2	17.8
50°-60°	367.0	13.7
60°-70°	242.2	9.0
70°-80°	140.9	5.3
80°-90°	51.3	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°	884.1	33.0
0°-40°	1400.4	52.3
0°-60°	2243.5	83.8
0°-90°	2678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1171	1168	1168	1173	1176	111
15°	1107	1107	1111	1121	1127	312
25°	983	988	997	1010	1018	452
35°	812	815	825	841	850	506
45°	606	607	616	628	634	467
55°	404	404	406	413	418	363
65°	244	242	239	240	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°	1175.7	1175.7	1175.7	1175.7	1175.7
2.5°	1175.7	1173.2	1172.5	1176.9	1179.4
5°	1170.7	1168.2	1167.6	1173.2	1175.7
7.5°	1160.7	1158.9	1159.5	1165.7	1168.8
10°	1146.4	1145.8	1147.1	1153.9	1157.6
12.5°	1129.7	1129.0	1131.5	1139.0	1144.0
15°	1107.3	1107.3	1111.0	1121.0	1127.2
17.5°	1080.6	1082.4	1088.0	1098.0	1104.8
20°	1052.0	1053.9	1061.3	1072.5	1080.6
22.5°	1020.3	1022.8	1030.2	1043.9	1050.8
25°	983.0	988.0	996.7	1010.4	1018.4
27.5°	944.5	950.1	958.2	974.9	982.4
30°	902.2	906.0	917.8	933.3	942.0
32.5°	857.5	861.2	871.2	889.8	897.3
35°	811.5	815.3	824.6	841.4	850.0
37.5°	761.8	764.9	776.1	789.2	798.5
40°	709.6	714.0	721.4	737.0	745.0
42.5°	658.7	660.5	668.6	684.1	690.4
45°	606.5	607.1	615.8	628.2	633.8
47.5°	552.4	553.7	564.2	571.7	577.3
50°	502.1	502.7	510.2	517.0	523.2
52.5°	451.7	451.7	455.5	462.9	471.0
55°	404.5	403.9	405.8	412.6	417.6
57.5°	359.8	359.2	361.6	366.0	369.7
60°	316.3	315.0	317.5	320.0	325.0
62.5°	277.8	279.0	275.9	279.6	283.3
65°	243.6	242.3	238.6	240.5	244.2
67.5°	214.4	212.5	206.3	207.5	211.9
70°	187.7	183.9	177.1	177.1	180.2
72.5°	163.4	159.7	151.0	151.6	152.9
75°	142.9	136.7	129.2	126.8	129.9
77.5°	120.5	115.6	108.7	106.9	108.1
80°	99.4	95.7	87.6	85.1	87.0
82.5°	78.9	75.8	66.5	64.6	65.2
85°	54.7	54.1	46.6	42.9	44.1
87.5°	29.2	29.8	24.2	21.7	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)