

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: P292081

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292081
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-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2378.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

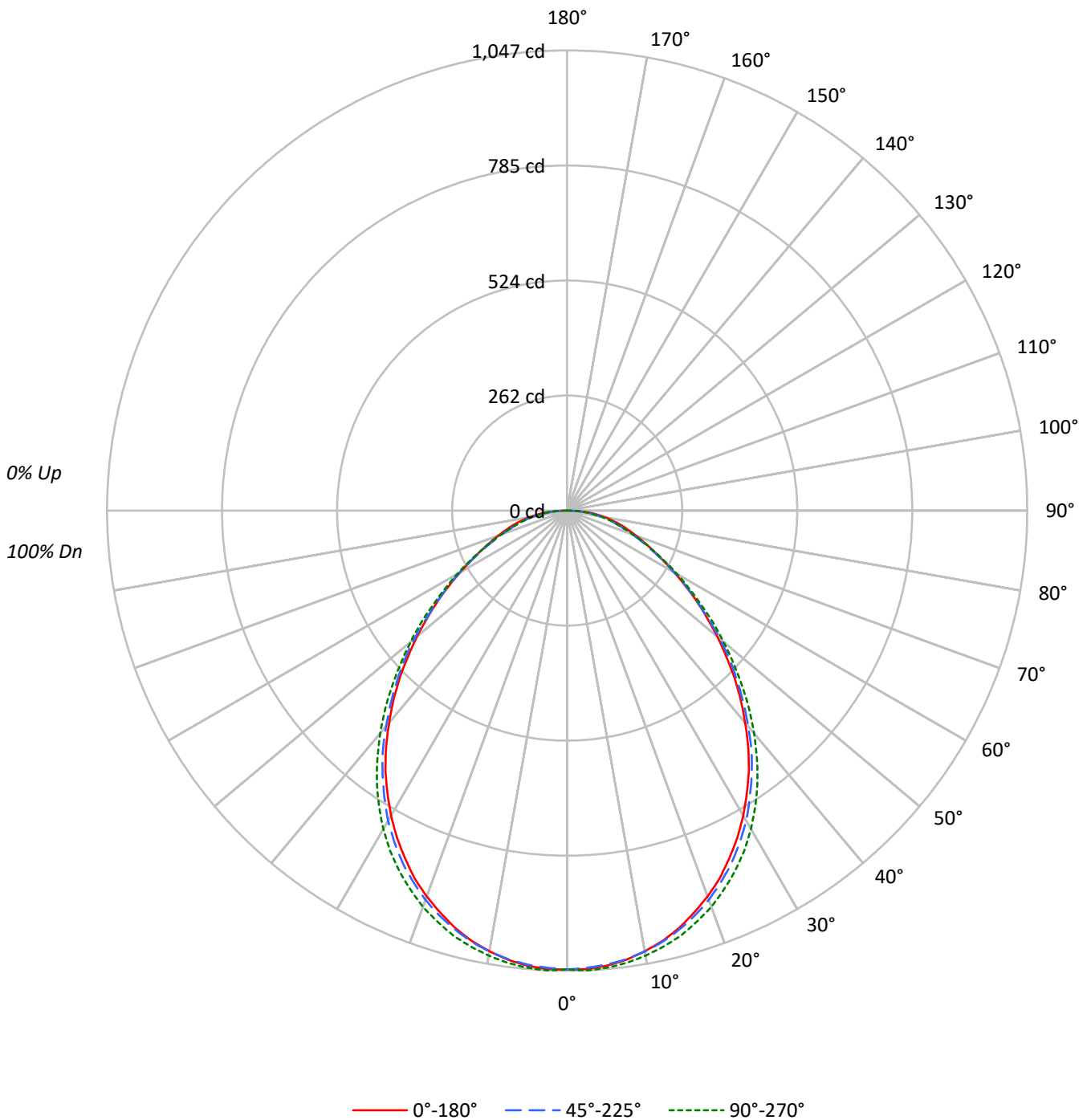
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2809	2809	2809
5°	2808	2801	2820
10°	2782	2783	2809
15°	2739	2749	2788
20°	2675	2699	2748
25°	2592	2628	2685
30°	2490	2532	2599
35°	2367	2405	2480
40°	2213	2250	2324
45°	2049	2081	2142
50°	1866	1896	1945
55°	1685	1690	1740
60°	1512	1518	1553
65°	1377	1349	1380
70°	1311	1238	1259
75°	1319	1194	1199
80°	1368	1206	1196
85°	1501	1278	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	4.1
10°-20°	278.6	11.7
20°-30°	407.8	17.1
30°-40°	458.5	19.3
40°-50°	422.8	17.8
50°-60°	325.9	13.7
60°-70°	215.0	9.0
70°-80°	125.2	5.3
80°-90°	45.6	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°	785.0	33.0
0°-40°	1243.5	52.3
0°-60°	1992.2	83.8
0°-90°	2378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1040	1037	1037	1042	1044	99
15°	983	983	987	995	1001	277
25°	873	877	885	897	904	401
35°	721	724	732	747	755	449
45°	538	539	547	558	563	415
55°	359	359	360	366	371	322
65°	216	215	212	214	217	217
75°	127	121	115	113	115	134
85°	49	48	41	38	39	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1044.0	1041.7	1041.2	1045.1	1047.3
5°	1039.5	1037.3	1036.8	1041.7	1044.0
7.5°	1030.7	1029.1	1029.6	1035.1	1037.9
10°	1018.0	1017.5	1018.6	1024.6	1028.0
12.5°	1003.1	1002.6	1004.8	1011.4	1015.8
15°	983.3	983.3	986.6	995.4	1000.9
17.5°	959.5	961.2	966.2	975.0	981.0
20°	934.1	935.8	942.4	952.4	959.5
22.5°	906.0	908.2	914.8	927.0	933.0
25°	872.9	877.3	885.0	897.2	904.4
27.5°	838.7	843.7	850.8	865.7	872.4
30°	801.2	804.5	815.0	828.8	836.5
32.5°	761.4	764.8	773.6	790.1	796.8
35°	720.6	723.9	732.2	747.1	754.8
37.5°	676.5	679.2	689.2	700.7	709.0
40°	630.1	634.0	640.6	654.4	661.6
42.5°	584.9	586.5	593.7	607.5	613.0
45°	538.5	539.1	546.8	557.8	562.8
47.5°	490.5	491.6	501.0	507.6	512.6
50°	445.8	446.4	453.0	459.1	464.6
52.5°	401.1	401.1	404.4	411.1	418.2
55°	359.2	358.7	360.3	366.4	370.8
57.5°	319.5	318.9	321.1	325.0	328.3
60°	280.9	279.7	282.0	284.2	288.6
62.5°	246.6	247.7	245.0	248.3	251.6
65°	216.3	215.2	211.9	213.5	216.8
67.5°	190.4	188.7	183.2	184.3	188.2
70°	166.6	163.3	157.3	157.3	160.0
72.5°	145.1	141.8	134.1	134.6	135.7
75°	126.9	121.4	114.8	112.6	115.3
77.5°	107.0	102.6	96.6	94.9	96.0
80°	88.3	85.0	77.8	75.6	77.2
82.5°	70.1	67.3	59.0	57.4	57.9
85°	48.6	48.0	41.4	38.1	39.2
87.5°	25.9	26.5	21.5	19.3	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)