

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: P292080

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292080
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 104.2 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

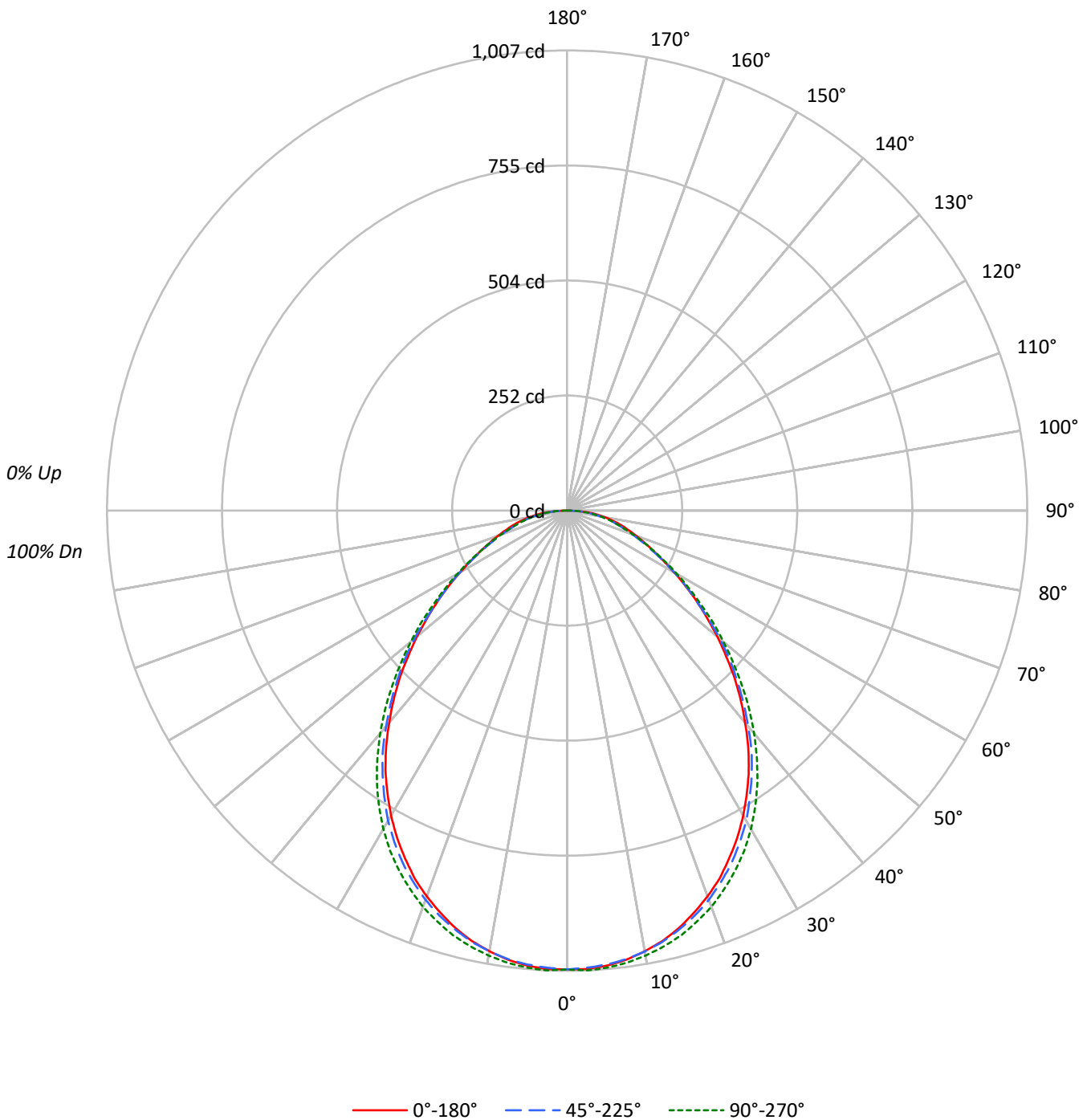
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2702	2702	2702
5°	2701	2693	2712
10°	2675	2677	2701
15°	2634	2643	2682
20°	2573	2596	2643
25°	2493	2527	2582
30°	2394	2435	2500
35°	2277	2313	2385
40°	2129	2164	2235
45°	1971	2001	2060
50°	1795	1824	1870
55°	1621	1626	1673
60°	1454	1460	1493
65°	1324	1298	1328
70°	1261	1190	1211
75°	1269	1148	1153
80°	1316	1159	1151
85°	1442	1229	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	4.1
10°-20°	267.9	11.7
20°-30°	392.2	17.1
30°-40°	440.9	19.3
40°-50°	406.6	17.8
50°-60°	313.4	13.7
60°-70°	206.8	9.0
70°-80°	120.4	5.3
80°-90°	43.9	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°	755.0	33.0
0°-40°	1195.9	52.3
0°-60°	1916.0	83.8
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1000	998	997	1002	1004	95
15°	946	946	949	957	963	266
25°	840	844	851	863	870	386
35°	693	696	704	718	726	432
45°	518	518	526	536	541	399
55°	346	345	346	352	357	310
65°	208	207	204	205	208	209
75°	122	117	110	108	111	129
85°	47	46	40	37	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	1004.0	1001.9	1001.3	1005.1	1007.2
5°	999.8	997.6	997.1	1001.9	1004.0
7.5°	991.3	989.7	990.2	995.5	998.2
10°	979.1	978.5	979.6	985.4	988.6
12.5°	964.7	964.2	966.3	972.7	976.9
15°	945.6	945.6	948.8	957.3	962.6
17.5°	922.8	924.4	929.2	937.7	943.5
20°	898.4	900.0	906.4	915.9	922.8
22.5°	871.3	873.5	879.8	891.5	897.3
25°	839.5	843.7	851.2	862.8	869.7
27.5°	806.6	811.4	818.3	832.6	839.0
30°	770.5	773.7	783.8	797.0	804.5
32.5°	732.3	735.5	744.0	759.9	766.3
35°	693.0	696.2	704.2	718.5	725.9
37.5°	650.6	653.2	662.8	673.9	681.9
40°	606.0	609.7	616.1	629.4	636.3
42.5°	562.5	564.1	571.0	584.3	589.6
45°	517.9	518.5	525.9	536.5	541.3
47.5°	471.8	472.8	481.8	488.2	493.0
50°	428.8	429.3	435.7	441.5	446.8
52.5°	385.8	385.8	389.0	395.3	402.2
55°	345.5	344.9	346.5	352.4	356.6
57.5°	307.3	306.7	308.8	312.6	315.7
60°	270.1	269.0	271.2	273.3	277.5
62.5°	237.2	238.3	235.6	238.8	242.0
65°	208.0	207.0	203.8	205.4	208.5
67.5°	183.1	181.5	176.2	177.2	181.0
70°	160.3	157.1	151.2	151.2	153.9
72.5°	139.6	136.4	128.9	129.5	130.5
75°	122.1	116.7	110.4	108.3	110.9
77.5°	102.9	98.7	92.9	91.3	92.3
80°	84.9	81.7	74.8	72.7	74.3
82.5°	67.4	64.7	56.8	55.2	55.7
85°	46.7	46.2	39.8	36.6	37.7
87.5°	24.9	25.5	20.7	18.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)