

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: P292074

Luminaire Tested: **22GR-LD5-24-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292074
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-LD5-24-F125-UNV-L92765-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: 2154.9 lumens
Efficiency: N/A
Efficacy: 117.6 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

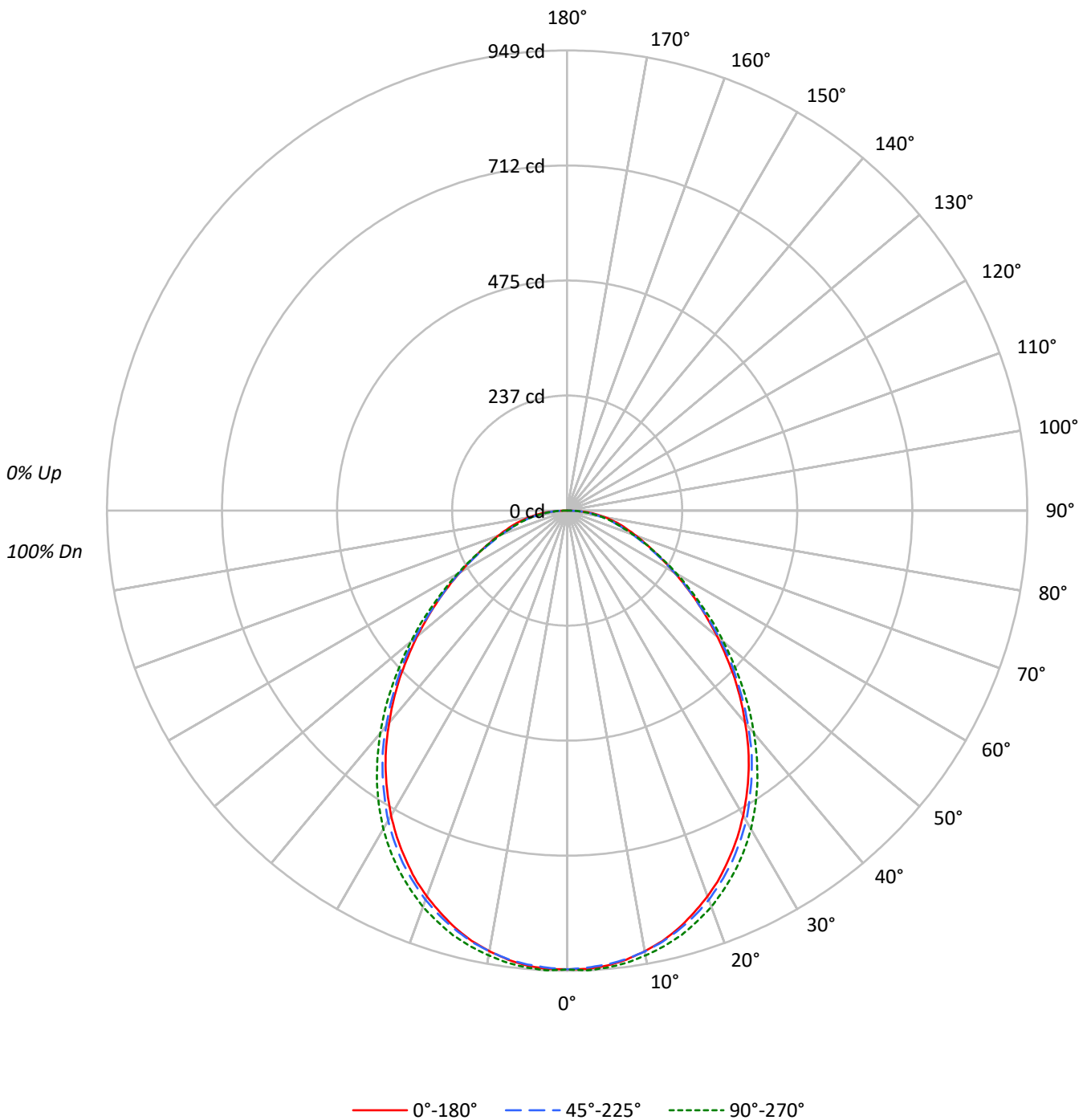
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2546	2546	2546
5°	2545	2538	2556
10°	2521	2522	2546
15°	2483	2491	2527
20°	2424	2446	2490
25°	2349	2381	2433
30°	2256	2295	2355
35°	2145	2180	2247
40°	2006	2039	2106
45°	1857	1886	1941
50°	1691	1719	1762
55°	1527	1532	1576
60°	1370	1375	1407
65°	1248	1223	1251
70°	1188	1121	1141
75°	1196	1081	1087
80°	1240	1093	1085
85°	1359	1158	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.1
10°-20°	252.5	11.7
20°-30°	369.5	17.1
30°-40°	415.5	19.3
40°-50°	383.1	17.8
50°-60°	295.3	13.7
60°-70°	194.9	9.0
70°-80°	113.4	5.3
80°-90°	41.3	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°	711.4	33.0
0°-40°	1126.9	52.3
0°-60°	1805.3	83.8
0°-90°	2154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	942	940	940	944	946	89
15°	891	891	894	902	907	251
25°	791	795	802	813	820	364
35°	653	656	664	677	684	407
45°	488	488	496	506	510	376
55°	326	325	326	332	336	292
65°	196	195	192	194	196	197
75°	115	110	104	102	104	121
85°	44	44	38	34	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.1	946.1	946.1	946.1	946.1
2.5°	946.1	944.1	943.6	947.1	949.1
5°	942.1	940.1	939.6	944.1	946.1
7.5°	934.1	932.6	933.1	938.1	940.6
10°	922.6	922.1	923.1	928.6	931.6
12.5°	909.1	908.6	910.6	916.6	920.6
15°	891.1	891.1	894.1	902.1	907.1
17.5°	869.5	871.0	875.5	883.6	889.1
20°	846.5	848.0	854.0	863.0	869.5
22.5°	821.0	823.0	829.0	840.0	845.5
25°	791.0	795.0	802.0	813.0	819.5
27.5°	760.0	764.5	771.0	784.5	790.5
30°	726.0	729.0	738.5	751.0	758.0
32.5°	690.0	693.0	701.0	716.0	722.0
35°	653.0	656.0	663.5	677.0	684.0
37.5°	613.0	615.5	624.5	635.0	642.5
40°	571.0	574.5	580.5	593.0	599.5
42.5°	530.0	531.5	538.0	550.5	555.5
45°	488.0	488.5	495.5	505.5	510.0
47.5°	444.5	445.5	454.0	460.0	464.5
50°	404.0	404.5	410.5	416.0	421.0
52.5°	363.5	363.5	366.5	372.5	379.0
55°	325.5	325.0	326.5	332.0	336.0
57.5°	289.5	289.0	291.0	294.5	297.5
60°	254.5	253.5	255.5	257.5	261.5
62.5°	223.5	224.5	222.0	225.0	228.0
65°	196.0	195.0	192.0	193.5	196.5
67.5°	172.5	171.0	166.0	167.0	170.5
70°	151.0	148.0	142.5	142.5	145.0
72.5°	131.5	128.5	121.5	122.0	123.0
75°	115.0	110.0	104.0	102.0	104.5
77.5°	97.0	93.0	87.5	86.0	87.0
80°	80.0	77.0	70.5	68.5	70.0
82.5°	63.5	61.0	53.5	52.0	52.5
85°	44.0	43.5	37.5	34.5	35.5
87.5°	23.5	24.0	19.5	17.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)