

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: P475942

Luminaire Tested: **22GR-LD5-24-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475942
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2433.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

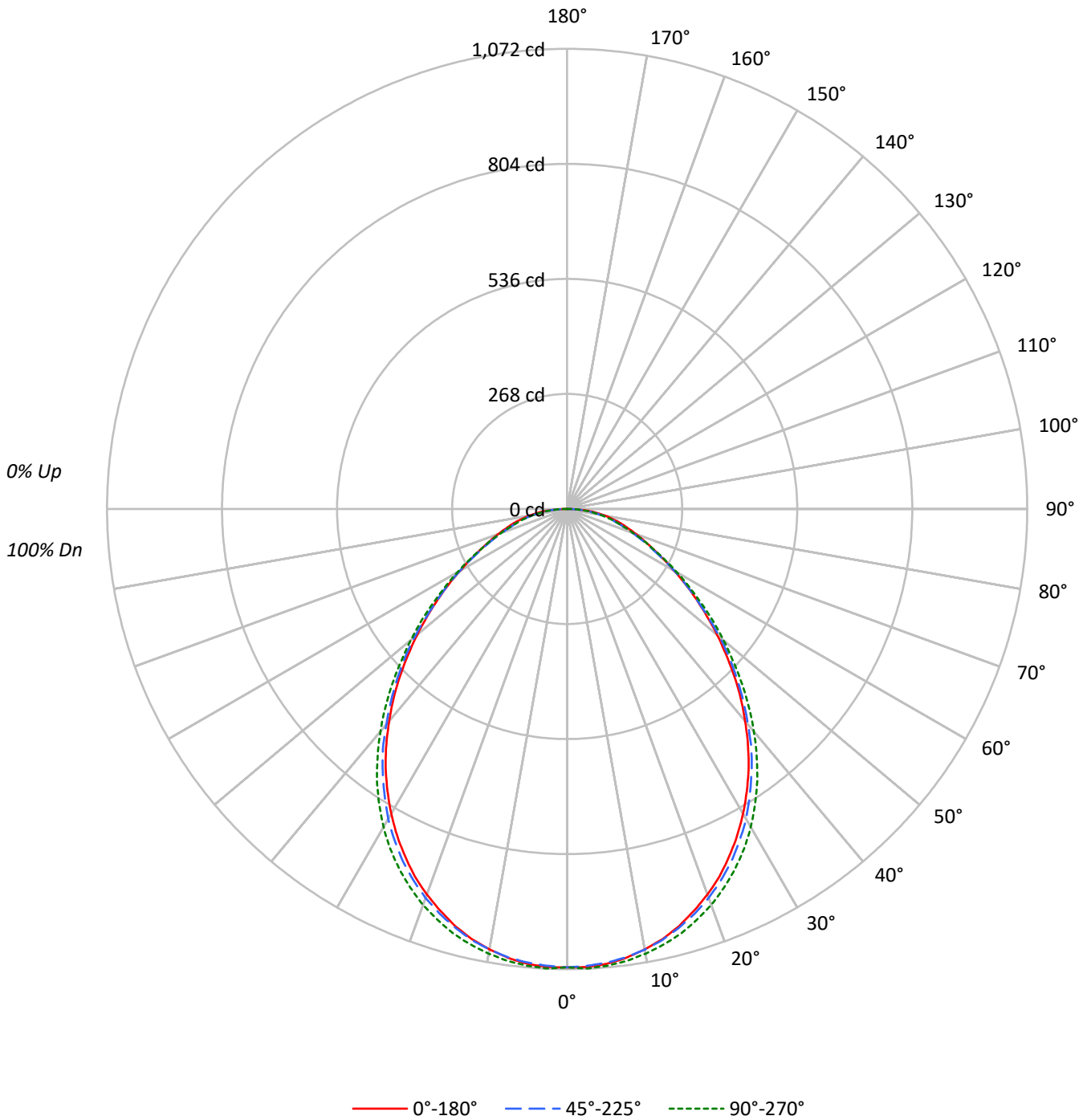
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475942

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475942

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L835-CD1-U

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2874	2874	2874
5°	2873	2865	2885
10°	2846	2848	2874
15°	2803	2812	2853
20°	2737	2761	2811
25°	2652	2689	2747
30°	2547	2591	2659
35°	2422	2461	2537
40°	2265	2302	2378
45°	2097	2129	2191
50°	1909	1940	1990
55°	1725	1729	1780
60°	1547	1552	1589
65°	1409	1380	1412
70°	1341	1266	1288
75°	1350	1221	1227
80°	1401	1234	1224
85°	1535	1306	1235



TEST NUMBER: P475942

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	4.1
10°-20°	285.1	11.7
20°-30°	417.2	17.1
30°-40°	469.1	19.3
40°-50°	432.6	17.8
50°-60°	333.4	13.7
60°-70°	220.0	9.0
70°-80°	128.0	5.3
80°-90°	46.6	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°	803.2	33.0
0°-40°	1272.3	52.3
0°-60°	2038.3	83.8
0°-90°	2433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1064	1061	1061	1066	1068	101
15°	1006	1006	1009	1018	1024	283
25°	893	898	906	918	925	411
35°	737	741	749	764	772	460
45°	551	552	560	571	576	424
55°	368	367	369	375	379	330
65°	221	220	217	218	222	222
75°	130	124	117	115	118	137
85°	50	49	42	39	40	53
90°	0	0	0	0	0	



TEST NUMBER: P475942

CATALOG NUMBER: 22GR-LD5-24-F125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.0	1068.0	1068.0	1068.0	1068.0
2.5°	1068.0	1065.8	1065.2	1069.2	1071.5
5°	1063.6	1061.3	1060.7	1065.8	1068.0
7.5°	1054.6	1052.8	1053.4	1059.1	1061.9
10°	1041.6	1041.0	1042.2	1048.3	1051.8
12.5°	1026.4	1025.8	1028.0	1034.7	1039.4
15°	1006.1	1006.1	1009.3	1018.5	1024.1
17.5°	981.7	983.4	988.4	997.5	1003.7
20°	955.7	957.5	964.2	974.4	981.7
22.5°	926.9	929.3	936.0	948.4	954.7
25°	893.1	897.6	905.5	917.9	925.3
27.5°	858.0	863.1	870.4	885.8	892.5
30°	819.7	823.1	833.9	847.9	855.8
32.5°	779.0	782.5	791.4	808.5	815.2
35°	737.2	740.7	749.2	764.4	772.3
37.5°	692.1	695.0	705.1	716.9	725.4
40°	644.8	648.7	655.4	669.6	676.9
42.5°	598.5	600.1	607.4	621.6	627.1
45°	551.0	551.6	559.5	570.7	575.8
47.5°	501.8	503.0	512.6	519.3	524.4
50°	456.1	456.7	463.4	469.7	475.4
52.5°	410.4	410.4	413.9	420.6	427.9
55°	367.6	367.0	368.6	374.9	379.4
57.5°	326.9	326.3	328.6	332.5	335.9
60°	287.4	286.2	288.4	290.8	295.3
62.5°	252.4	253.5	250.6	254.1	257.5
65°	221.3	220.1	216.7	218.5	221.8
67.5°	194.8	193.1	187.4	188.5	192.5
70°	170.4	167.1	160.9	160.9	163.7
72.5°	148.5	145.0	137.1	137.7	138.9
75°	129.8	124.3	117.4	115.2	118.0
77.5°	109.5	105.0	98.7	97.1	98.3
80°	90.4	86.9	79.6	77.4	79.0
82.5°	71.7	68.9	60.3	58.7	59.3
85°	49.7	49.1	42.3	39.0	40.0
87.5°	26.6	27.0	22.0	19.7	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)