

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: P475771

Luminaire Tested: **24GR-LD5-100-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475771
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-A125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9731.6 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

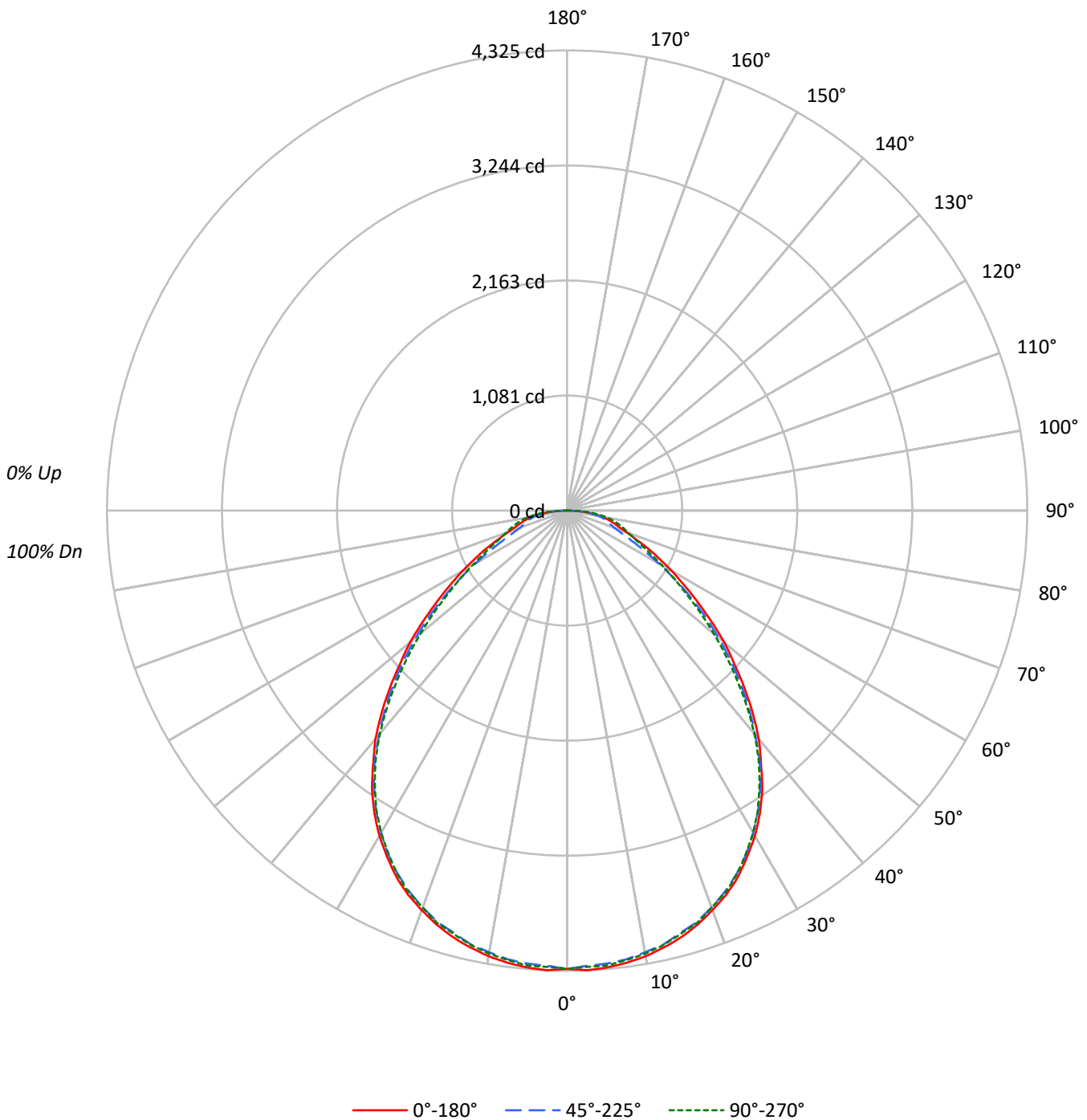
Input Watts (W): 67.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5795	5795	5795
5°	5823	5772	5797
10°	5810	5760	5776
15°	5781	5725	5738
20°	5722	5682	5685
25°	5640	5594	5603
30°	5483	5434	5431
35°	5253	5201	5176
40°	4922	4826	4806
45°	4481	4391	4307
50°	4034	3891	3764
55°	3500	3311	3211
60°	3057	2668	2762
65°	2645	2121	2455
70°	2333	1860	2397
75°	2342	2022	2623
80°	2566	2402	2969
85°	2705	2615	3404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	4.2
10°-20°	1163.2	12.0
20°-30°	1734.2	17.8
30°-40°	1971.4	20.3
40°-50°	1776.7	18.3
50°-60°	1279.8	13.2
60°-70°	744.4	7.6
70°-80°	455.5	4.7
80°-90°	199.3	2.0
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°	3304.5	34.0
0°-40°	5275.9	54.2
0°-60°	8332.4	85.6
0°-90°	9731.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9731.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4307	4307	4307	4307	4307	
5°	4311	4281	4274	4282	4292	410
15°	4150	4127	4110	4117	4120	1170
25°	3799	3776	3768	3762	3774	1745
35°	3198	3176	3166	3148	3151	1990
45°	2355	2328	2308	2272	2263	1816
55°	1492	1457	1411	1397	1369	1346
65°	831	747	666	718	771	831
75°	451	408	389	443	504	480
85°	175	173	169	230	220	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4307.2	4307.2	4307.2	4307.2	4307.2
2.5°	4324.6	4301.5	4282.2	4283.2	4292.8
5°	4311.1	4281.2	4273.5	4282.2	4291.8
7.5°	4287.0	4259.1	4254.3	4249.5	4261.0
10°	4252.4	4233.1	4215.8	4220.6	4227.3
12.5°	4206.1	4189.8	4177.3	4167.6	4182.1
15°	4150.3	4127.2	4109.9	4116.6	4119.5
17.5°	4080.0	4057.9	4053.1	4049.2	4063.7
20°	3996.3	3982.8	3968.4	3972.2	3970.3
22.5°	3907.7	3887.5	3875.9	3870.2	3885.6
25°	3798.9	3775.8	3768.1	3762.3	3773.9
27.5°	3666.1	3653.5	3643.0	3635.3	3636.2
30°	3529.4	3516.8	3497.6	3491.8	3495.7
32.5°	3372.4	3358.0	3340.7	3323.3	3335.8
35°	3198.2	3176.0	3166.4	3148.1	3151.0
37.5°	2992.2	2982.5	2973.9	2949.8	2957.5
40°	2802.5	2776.5	2747.6	2733.2	2736.1
42.5°	2583.0	2556.0	2532.9	2512.7	2503.1
45°	2354.8	2327.9	2307.7	2272.0	2263.4
47.5°	2127.6	2102.6	2080.4	2052.5	2027.5
50°	1927.4	1881.2	1859.0	1830.1	1798.4
52.5°	1702.1	1675.1	1631.8	1607.8	1578.9
55°	1492.2	1456.6	1411.4	1396.9	1369.0
57.5°	1303.5	1265.0	1198.6	1192.8	1191.9
60°	1136.0	1084.0	991.6	998.3	1026.3
62.5°	973.3	899.2	815.4	845.3	886.7
65°	830.8	747.1	666.2	718.2	771.1
67.5°	694.1	619.0	550.7	620.0	675.8
70°	593.0	530.5	472.7	546.8	609.4
72.5°	508.3	460.2	422.6	490.0	557.4
75°	450.6	408.2	388.9	442.9	504.5
77.5°	396.6	359.1	353.3	401.5	446.7
80°	331.2	305.2	310.0	359.1	383.2
82.5°	252.2	244.5	245.5	307.1	311.9
85°	175.2	173.3	169.4	230.1	220.5
87.5°	88.6	90.5	89.5	130.9	117.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)