

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: P475785

Luminaire Tested: **24GR-LD5-90-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475785
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-A125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9046.3 lumens
Efficiency: N/A
Efficacy: 147.8 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

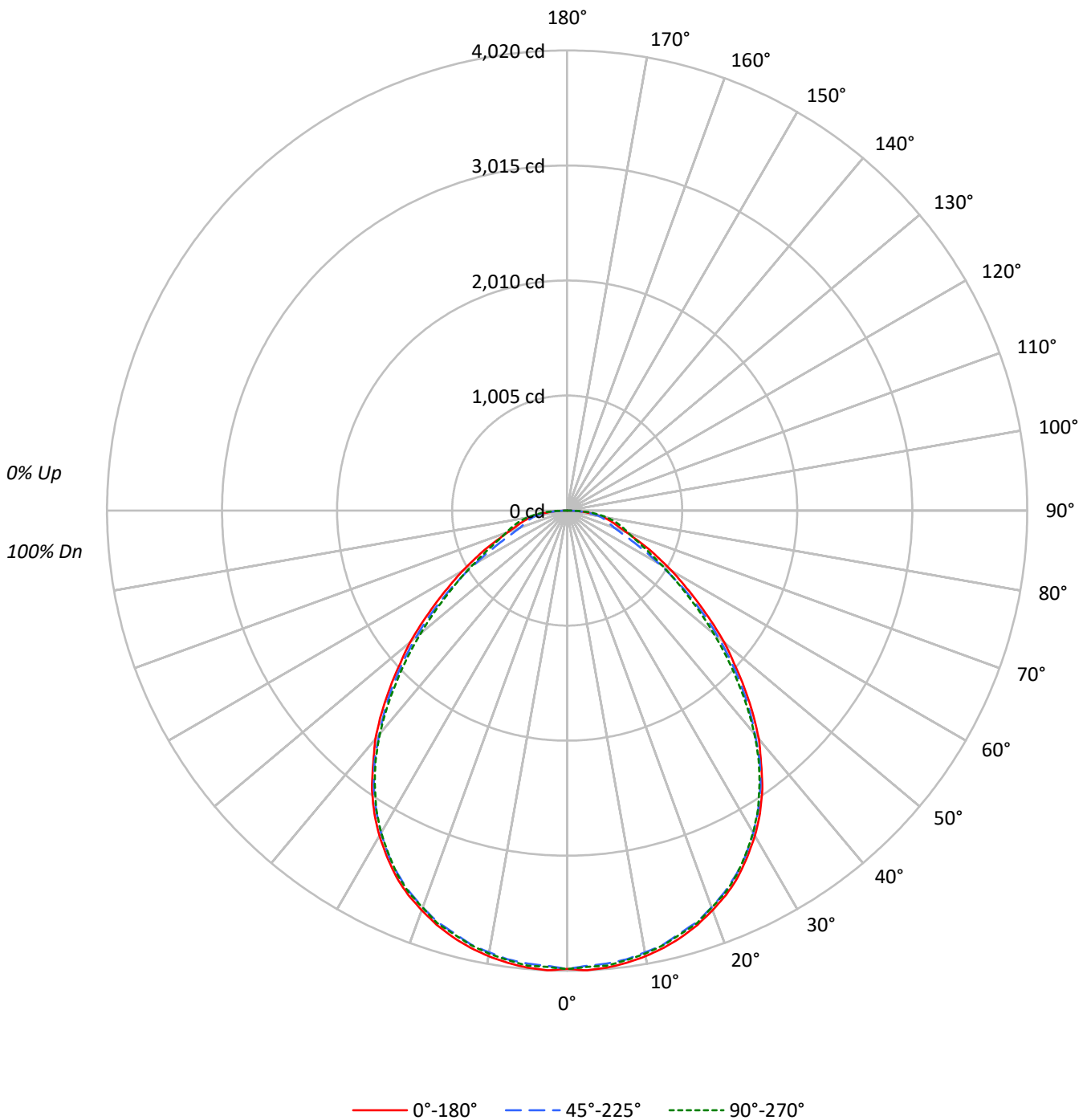
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5387	5387	5387
5°	5413	5366	5388
10°	5401	5354	5369
15°	5374	5322	5334
20°	5319	5282	5284
25°	5243	5200	5208
30°	5097	5051	5049
35°	4883	4835	4811
40°	4576	4486	4467
45°	4165	4082	4004
50°	3750	3617	3499
55°	3254	3078	2985
60°	2842	2481	2567
65°	2459	1972	2282
70°	2169	1729	2229
75°	2177	1880	2438
80°	2386	2233	2760
85°	2515	2431	3163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	4.2
10°-20°	1081.3	12.0
20°-30°	1612.1	17.8
30°-40°	1832.6	20.3
40°-50°	1651.6	18.3
50°-60°	1189.6	13.2
60°-70°	692.0	7.6
70°-80°	423.4	4.7
80°-90°	185.3	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°	3071.8	34.0
0°-40°	4904.4	54.2
0°-60°	7745.7	85.6
0°-90°	9046.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9046.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4004	4004	4004	4004	4004	
5°	4008	3980	3973	3981	3990	381
15°	3858	3837	3820	3827	3829	1088
25°	3531	3510	3503	3497	3508	1622
35°	2973	2952	2944	2926	2929	1850
45°	2189	2164	2145	2112	2104	1689
55°	1387	1354	1312	1299	1273	1251
65°	772	694	619	668	717	773
75°	419	380	362	412	469	446
85°	163	161	158	214	205	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4004.0	4004.0	4004.0	4004.0	4004.0
2.5°	4020.1	3998.6	3980.7	3981.6	3990.5
5°	4007.5	3979.8	3972.6	3980.7	3989.6
7.5°	3985.2	3959.2	3954.7	3950.3	3961.0
10°	3952.9	3935.0	3918.9	3923.4	3929.7
12.5°	3910.0	3894.8	3883.1	3874.2	3887.6
15°	3858.1	3836.6	3820.5	3826.8	3829.4
17.5°	3792.8	3772.2	3767.7	3764.1	3777.5
20°	3714.9	3702.4	3688.9	3692.5	3690.7
22.5°	3632.6	3613.8	3603.0	3597.7	3612.0
25°	3531.4	3509.9	3502.8	3497.4	3508.2
27.5°	3407.9	3396.3	3386.4	3379.3	3380.2
30°	3280.8	3269.2	3251.3	3245.9	3249.5
32.5°	3135.0	3121.5	3105.4	3089.3	3101.0
35°	2973.0	2952.4	2943.5	2926.4	2929.1
37.5°	2781.5	2772.5	2764.5	2742.1	2749.3
40°	2605.2	2581.0	2554.2	2540.7	2543.4
42.5°	2401.1	2376.1	2354.6	2335.8	2326.8
45°	2189.0	2164.0	2145.2	2112.1	2104.0
47.5°	1977.8	1954.5	1934.0	1908.0	1884.7
50°	1791.7	1748.7	1728.1	1701.3	1671.7
52.5°	1582.3	1557.2	1516.9	1494.5	1467.7
55°	1387.2	1354.0	1312.0	1298.6	1272.6
57.5°	1211.7	1175.9	1114.2	1108.8	1107.9
60°	1056.0	1007.7	921.8	928.1	954.0
62.5°	904.8	835.9	758.0	785.8	824.2
65°	772.3	694.5	619.3	667.6	716.8
67.5°	645.3	575.4	511.9	576.3	628.2
70°	551.3	493.1	439.4	508.3	566.5
72.5°	472.5	427.8	392.9	455.5	518.2
75°	418.8	379.5	361.6	411.7	468.9
77.5°	368.7	333.8	328.4	373.2	415.3
80°	307.9	283.7	288.2	333.8	356.2
82.5°	234.5	227.3	228.2	285.5	290.0
85°	162.9	161.1	157.5	213.9	204.9
87.5°	82.3	84.1	83.2	121.7	109.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)