

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: P475620

Luminaire Tested: **24GR-LD5-90-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475620
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-F125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9180.9 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

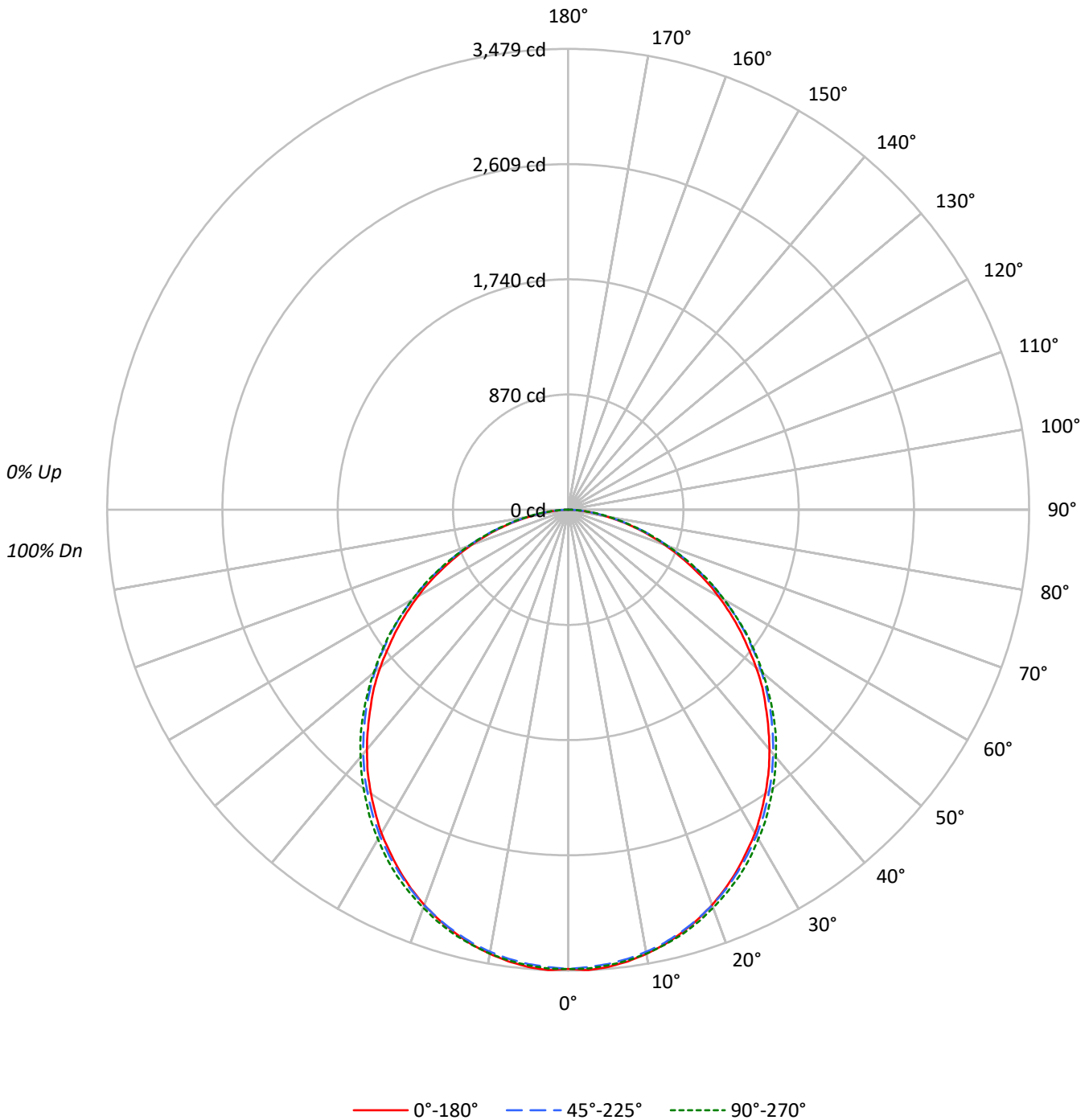
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4665	4665	4665
5°	4679	4650	4663
10°	4652	4630	4650
15°	4606	4596	4624
20°	4547	4549	4579
25°	4468	4486	4533
30°	4381	4414	4460
35°	4268	4326	4377
40°	4151	4226	4282
45°	4014	4112	4164
50°	3874	3987	4014
55°	3707	3840	3868
60°	3529	3650	3654
65°	3297	3425	3443
70°	3055	3141	3131
75°	2714	2811	2819
80°	2270	2351	2440
85°	1703	1832	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	3.6
10°-20°	932.0	10.2
20°-30°	1393.3	15.2
30°-40°	1646.1	17.9
40°-50°	1661.7	18.1
50°-60°	1450.2	15.8
60°-70°	1057.2	11.5
70°-80°	570.2	6.2
80°-90°	142.7	1.6
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°	2652.9	28.9
0°-40°	4299.0	46.8
0°-60°	7410.8	80.7
0°-90°	9180.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9180.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3467	3467	3467	3467	3467	
5°	3465	3452	3443	3446	3453	329
15°	3307	3300	3300	3307	3320	932
25°	3010	3010	3022	3041	3054	1386
35°	2599	2606	2634	2660	2665	1626
45°	2109	2124	2161	2188	2188	1629
55°	1580	1599	1637	1643	1649	1412
65°	1036	1058	1076	1078	1082	1029
75°	522	527	541	543	542	555
85°	110	113	119	124	123	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3467.2	3467.2	3467.2	3467.2	3467.2
2.5°	3478.7	3466.2	3456.3	3458.4	3466.7
5°	3464.6	3452.1	3442.8	3445.9	3452.6
7.5°	3439.6	3428.2	3420.9	3424.0	3432.9
10°	3405.3	3395.9	3389.1	3393.8	3403.2
12.5°	3361.6	3352.2	3349.6	3356.4	3364.7
15°	3306.9	3300.1	3299.6	3307.4	3319.9
17.5°	3245.5	3238.7	3242.4	3252.8	3263.7
20°	3175.8	3169.5	3176.8	3190.9	3198.1
22.5°	3096.1	3090.9	3103.9	3118.5	3127.9
25°	3009.7	3010.3	3021.7	3041.0	3053.5
27.5°	2914.0	2917.6	2934.8	2953.5	2966.0
30°	2819.8	2816.7	2841.1	2861.4	2870.8
32.5°	2710.5	2712.0	2740.7	2761.5	2775.5
35°	2598.6	2605.9	2634.0	2659.5	2664.7
37.5°	2485.7	2490.9	2524.7	2549.7	2556.4
40°	2363.3	2372.7	2406.0	2429.4	2437.8
42.5°	2235.8	2247.8	2283.7	2308.2	2319.1
45°	2109.4	2124.5	2160.9	2188.0	2188.5
47.5°	1987.1	1998.0	2033.4	2057.3	2054.7
50°	1850.7	1866.8	1904.8	1919.4	1917.8
52.5°	1711.2	1735.7	1770.6	1782.0	1780.4
55°	1580.1	1599.3	1636.8	1643.0	1648.8
57.5°	1444.2	1460.9	1501.5	1504.1	1503.0
60°	1311.5	1326.6	1356.3	1363.6	1357.8
62.5°	1177.8	1192.9	1219.4	1226.7	1225.7
65°	1035.7	1058.1	1075.8	1077.8	1081.5
67.5°	903.5	917.5	934.7	937.8	935.2
70°	776.5	788.5	798.4	800.4	795.8
72.5°	645.4	656.3	670.3	672.9	667.7
75°	522.0	527.2	540.7	542.8	542.3
77.5°	402.3	406.5	416.4	424.2	425.2
80°	293.0	294.6	303.4	309.1	314.9
82.5°	194.1	198.3	205.1	210.8	216.0
85°	110.3	112.9	118.7	124.4	122.8
87.5°	42.7	48.4	48.9	54.6	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)