

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: P219183

Luminaire Tested: **24GR-LD5-90-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-90-A125-UNV-L940-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7966.6 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

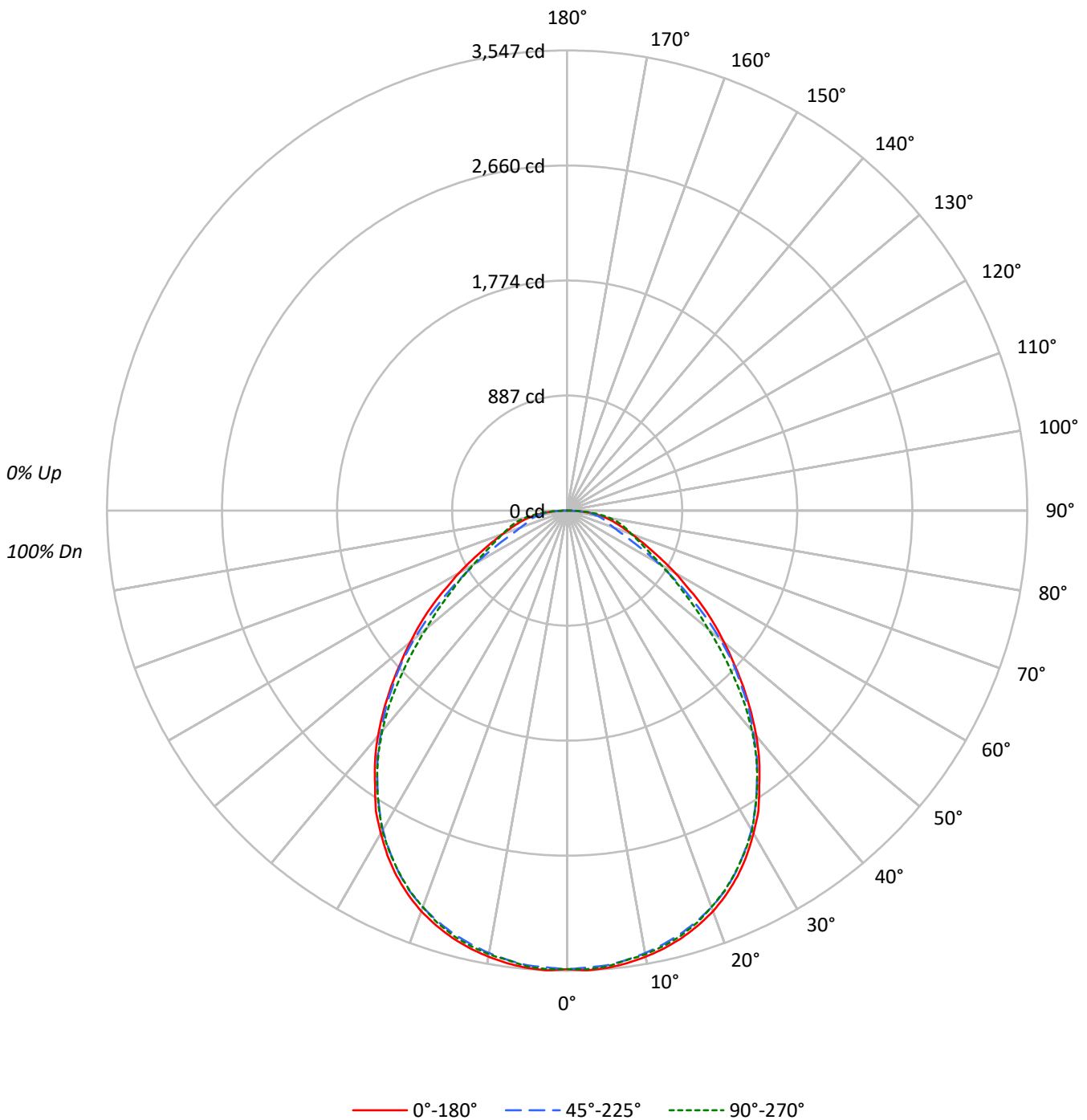
Input Watts (W): 69.117  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5414	5414	5414
5°	5440	5410	5423
10°	5430	5386	5402
15°	5410	5355	5378
20°	5358	5304	5302
25°	5254	5198	5193
30°	5080	5028	5039
35°	4826	4770	4777
40°	4538	4459	4432
45°	4159	4103	3940
50°	3760	3657	3381
55°	3375	3073	2915
60°	2956	2473	2564
65°	2578	1945	2359
70°	2359	1698	2359
75°	2360	1806	2600
80°	2561	2127	2964
85°	2812	2402	3179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.7	4.2
10°-20°	955.2	12.0
20°-30°	1416.4	17.8
30°-40°	1597.9	20.1
40°-50°	1447.2	18.2
50°-60°	1044.1	13.1
60°-70°	623.4	7.8
70°-80°	385.3	4.8
80°-90°	162.3	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°	2706.4	34.0
0°-40°	4304.3	54.0
0°-60°	6795.6	85.3
0°-90°	7966.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7966.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3535	3535	3535	3535	3535	
5°	3538	3534	3519	3515	3527	336
15°	3412	3391	3377	3378	3392	962
25°	3109	3092	3076	3064	3073	1428
35°	2581	2577	2551	2553	2555	1615
45°	1920	1908	1894	1847	1819	1480
55°	1264	1225	1151	1094	1092	1128
65°	711	626	537	609	651	716
75°	399	346	305	380	439	426
85°	160	140	137	178	181	167
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3534.7	3534.7	3534.7	3534.7	3534.7
2.5°	3547.0	3537.1	3524.8	3532.2	3538.4
5°	3538.4	3533.5	3518.7	3515.0	3527.3
7.5°	3519.9	3507.6	3494.1	3500.2	3495.3
10°	3491.6	3480.5	3463.3	3464.5	3473.1
12.5°	3457.1	3443.6	3425.1	3430.0	3437.4
15°	3411.6	3390.6	3377.1	3378.3	3391.9
17.5°	3353.7	3337.7	3320.5	3324.2	3330.4
20°	3287.3	3278.7	3254.1	3246.7	3252.9
22.5°	3203.6	3187.6	3174.1	3170.4	3171.6
25°	3108.8	3091.6	3075.6	3064.5	3073.1
27.5°	2998.0	2983.3	2962.4	2958.7	2966.1
30°	2872.6	2861.5	2843.0	2838.1	2849.2
32.5°	2744.5	2726.1	2700.2	2700.2	2702.7
35°	2580.9	2577.2	2551.3	2552.6	2555.0
37.5°	2433.2	2415.9	2401.2	2386.4	2393.8
40°	2269.5	2249.8	2230.1	2220.3	2216.6
42.5°	2093.5	2078.7	2070.1	2034.4	2025.8
45°	1920.0	1907.7	1894.1	1847.4	1819.0
47.5°	1742.7	1740.3	1729.2	1646.7	1618.4
50°	1577.8	1574.1	1534.8	1447.4	1419.0
52.5°	1421.5	1396.9	1345.2	1259.0	1254.1
55°	1263.9	1224.6	1150.8	1094.1	1091.7
57.5°	1097.8	1051.0	976.0	945.2	961.2
60°	964.9	893.5	807.4	811.1	836.9
62.5°	827.1	747.1	662.1	699.1	729.8
65°	711.4	626.4	536.6	609.2	651.0
67.5°	610.4	531.7	445.6	542.7	583.3
70°	526.8	462.8	379.1	481.3	526.8
72.5°	460.3	401.2	336.0	432.0	484.9
75°	398.8	345.8	305.2	380.3	439.4
77.5°	345.8	294.1	275.7	336.0	393.8
80°	290.4	243.7	241.2	292.9	336.0
82.5°	226.4	194.4	194.4	244.9	270.7
85°	160.0	140.3	136.7	178.4	180.9
87.5°	82.5	78.8	71.4	93.6	93.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)