

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: P476105

Luminaire Tested: **22GR-LD5-60-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476105
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6108.8 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

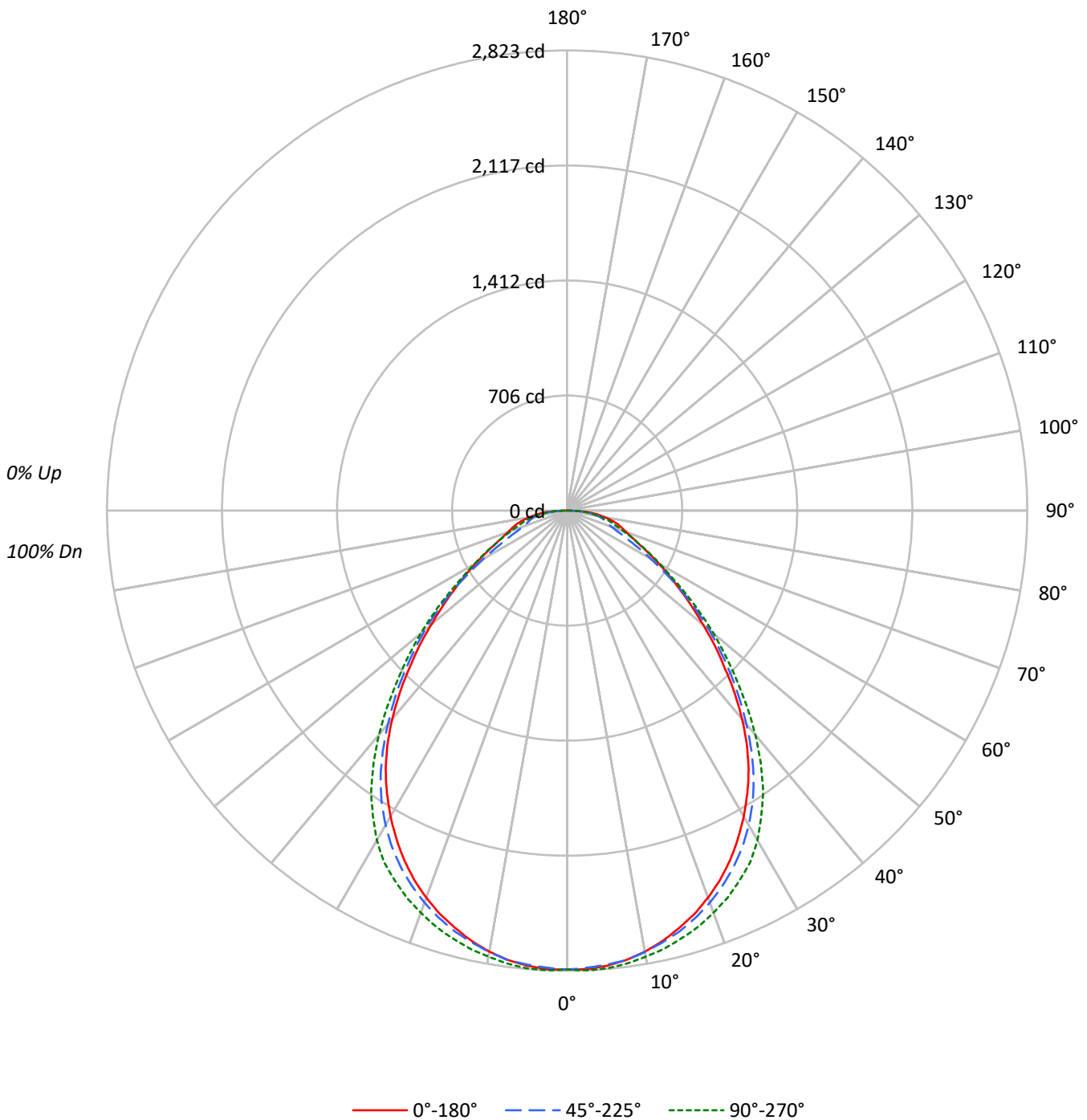
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7577	7577	7577
5°	7572	7552	7615
10°	7508	7515	7593
15°	7388	7441	7567
20°	7236	7330	7518
25°	7025	7168	7431
30°	6732	6922	7254
35°	6377	6555	6887
40°	5865	6009	6309
45°	5209	5398	5593
50°	4550	4758	4902
55°	3955	4010	4157
60°	3481	3188	3549
65°	3093	2548	3110
70°	3036	2262	2870
75°	3319	2488	2931
80°	3645	2955	3137
85°	4350	3433	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	4.4
10°-20°	754.7	12.4
20°-30°	1114.1	18.2
30°-40°	1246.7	20.4
40°-50°	1094.8	17.9
50°-60°	774.6	12.7
60°-70°	450.9	7.4
70°-80°	281.0	4.6
80°-90°	125.7	2.1
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°	2135.0	34.9
0°-40°	3381.6	55.4
0°-60°	5251.1	86.0
0°-90°	6108.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6108.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2803	2796	2796	2810	2819	266
15°	2652	2658	2671	2699	2716	747
25°	2366	2376	2414	2471	2503	1087
35°	1941	1950	1995	2055	2096	1207
45°	1369	1385	1418	1453	1470	1059
55°	843	860	855	870	886	762
65°	486	447	400	436	488	493
75°	319	275	239	245	282	333
85°	141	147	111	108	114	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2815.8	2815.8	2815.8	2815.8	2815.8
2.5°	2815.8	2810.2	2807.2	2817.4	2823.0
5°	2803.0	2795.9	2795.9	2810.2	2818.9
7.5°	2780.4	2773.3	2781.6	2794.4	2803.0
10°	2747.6	2744.6	2750.3	2767.6	2778.9
12.5°	2704.7	2706.2	2711.8	2739.0	2753.3
15°	2651.9	2657.6	2670.8	2699.0	2716.0
17.5°	2595.0	2599.5	2619.1	2651.9	2676.4
20°	2526.8	2535.1	2559.6	2600.7	2625.2
22.5°	2451.1	2461.2	2491.0	2541.1	2570.9
25°	2365.9	2375.7	2414.1	2471.0	2502.7
27.5°	2269.0	2284.5	2327.4	2390.0	2432.6
30°	2166.5	2179.3	2227.6	2298.8	2334.6
32.5°	2056.9	2072.3	2117.9	2186.1	2217.8
35°	1941.2	1949.8	1995.4	2055.4	2096.4
37.5°	1810.4	1814.5	1857.1	1912.9	1949.8
40°	1669.5	1672.1	1710.5	1763.3	1796.1
42.5°	1522.5	1524.0	1565.4	1605.0	1633.7
45°	1368.7	1384.6	1418.5	1452.8	1469.7
47.5°	1230.4	1242.1	1273.4	1303.2	1319.0
50°	1086.8	1115.1	1136.6	1152.4	1170.9
52.5°	962.9	987.0	992.6	1011.1	1026.9
55°	843.0	860.4	854.7	870.2	886.0
57.5°	742.0	733.4	714.9	742.0	762.0
60°	646.7	623.7	592.4	629.7	659.5
62.5°	561.1	524.2	485.8	522.7	572.4
65°	485.8	447.3	400.2	436.0	488.4
67.5°	428.9	388.9	333.1	368.9	421.7
70°	385.9	344.8	287.5	317.7	364.8
72.5°	352.0	307.5	257.8	277.7	317.7
75°	319.2	274.7	239.3	245.0	281.9
77.5°	280.8	248.0	219.3	216.3	245.0
80°	235.2	225.0	190.7	186.5	202.4
82.5°	193.7	189.6	156.8	152.2	158.3
85°	140.9	146.6	111.2	108.2	113.8
87.5°	74.2	81.0	58.4	61.4	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)