

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: P475794

Luminaire Tested: **24GR-LD5-42-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475794
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4388.1 lumens
Efficiency: N/A
Efficacy: 144.8 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

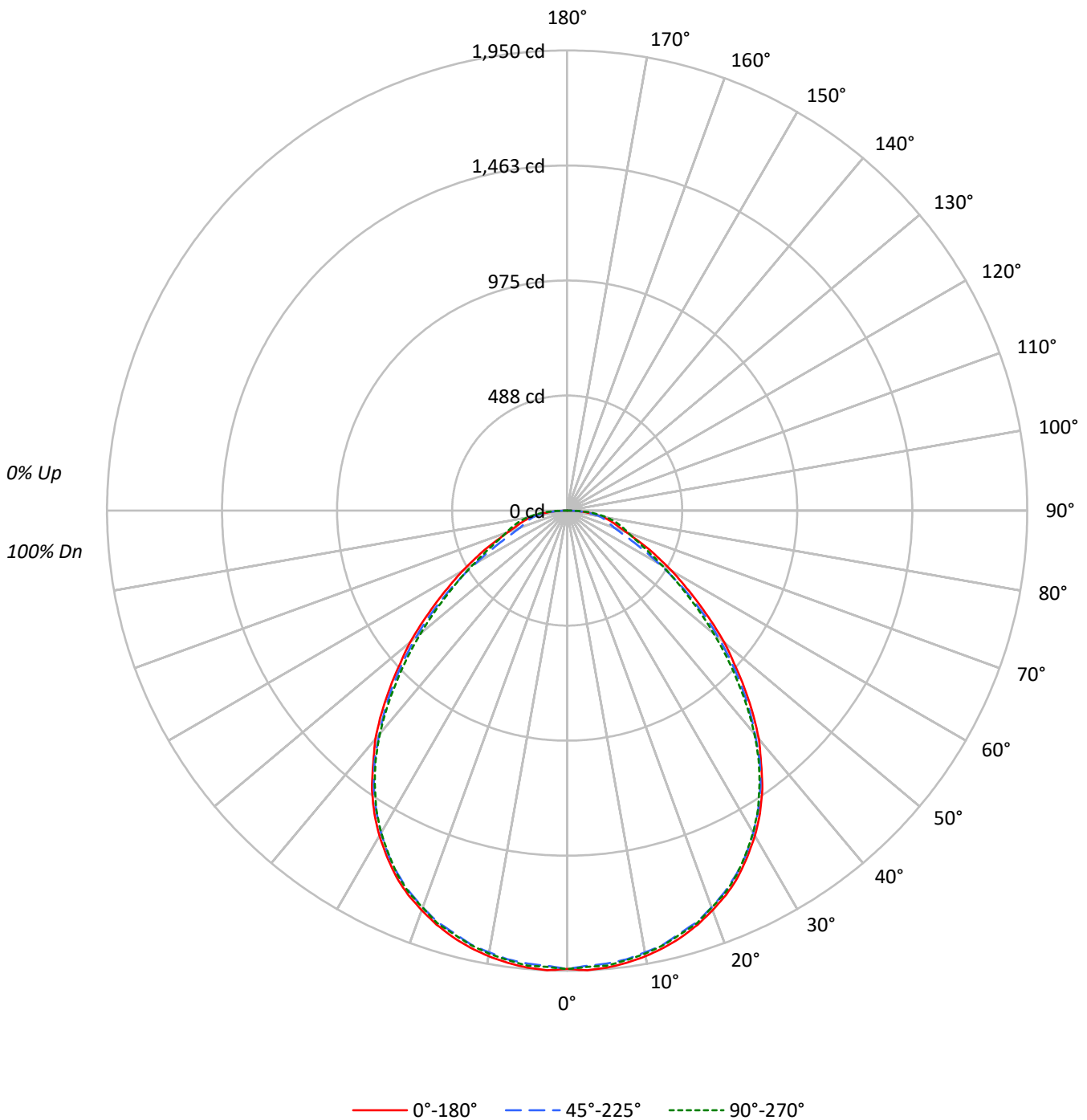
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2613	2613	2613
5°	2625	2603	2614
10°	2620	2597	2604
15°	2607	2581	2588
20°	2580	2562	2563
25°	2543	2522	2526
30°	2472	2450	2449
35°	2369	2345	2334
40°	2220	2176	2167
45°	2020	1980	1942
50°	1819	1755	1697
55°	1578	1493	1448
60°	1378	1203	1245
65°	1193	956	1107
70°	1052	838	1081
75°	1056	912	1183
80°	1157	1083	1339
85°	1220	1179	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	4.2
10°-20°	524.5	12.0
20°-30°	782.0	17.8
30°-40°	889.0	20.3
40°-50°	801.1	18.3
50°-60°	577.1	13.2
60°-70°	335.6	7.6
70°-80°	205.4	4.7
80°-90°	89.9	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°	1490.0	34.0
0°-40°	2379.0	54.2
0°-60°	3757.2	85.6
0°-90°	4388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4388.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1944	1930	1927	1931	1935	185
15°	1871	1861	1853	1856	1858	528
25°	1713	1703	1699	1696	1702	787
35°	1442	1432	1428	1420	1421	897
45°	1062	1050	1041	1024	1021	819
55°	673	657	636	630	617	607
65°	375	337	300	324	348	375
75°	203	184	175	200	228	216
85°	79	78	76	104	99	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.2	1942.2	1942.2	1942.2	1942.2
2.5°	1950.0	1939.6	1930.9	1931.4	1935.7
5°	1943.9	1930.5	1927.0	1930.9	1935.3
7.5°	1933.1	1920.5	1918.3	1916.2	1921.4
10°	1917.5	1908.8	1901.0	1903.1	1906.2
12.5°	1896.6	1889.2	1883.6	1879.3	1885.8
15°	1871.4	1861.0	1853.2	1856.2	1857.6
17.5°	1839.8	1829.8	1827.6	1825.9	1832.4
20°	1802.0	1795.9	1789.4	1791.1	1790.3
22.5°	1762.0	1752.9	1747.7	1745.1	1752.1
25°	1713.0	1702.6	1699.1	1696.5	1701.7
27.5°	1653.1	1647.4	1642.7	1639.2	1639.6
30°	1591.4	1585.8	1577.1	1574.5	1576.2
32.5°	1520.7	1514.2	1506.4	1498.5	1504.2
35°	1442.1	1432.1	1427.8	1419.5	1420.8
37.5°	1349.2	1344.9	1341.0	1330.1	1333.6
40°	1263.7	1252.0	1238.9	1232.4	1233.7
42.5°	1164.7	1152.6	1142.1	1133.0	1128.7
45°	1061.8	1049.7	1040.6	1024.5	1020.6
47.5°	959.4	948.1	938.1	925.5	914.2
50°	869.1	848.2	838.3	825.2	810.9
52.5°	767.5	755.3	735.8	725.0	711.9
55°	672.9	656.8	636.4	629.9	617.3
57.5°	587.8	570.4	540.5	537.9	537.4
60°	512.2	488.8	447.1	450.2	462.8
62.5°	438.9	405.5	367.7	381.1	399.8
65°	374.6	336.9	300.4	323.8	347.7
67.5°	313.0	279.1	248.3	279.6	304.7
70°	267.4	239.2	213.1	246.6	274.8
72.5°	229.2	207.5	190.6	221.0	251.3
75°	203.2	184.1	175.4	199.7	227.5
77.5°	178.9	161.9	159.3	181.0	201.4
80°	149.3	137.6	139.8	161.9	172.8
82.5°	113.7	110.3	110.7	138.5	140.7
85°	79.0	78.1	76.4	103.8	99.4
87.5°	39.9	40.8	40.4	59.0	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)