

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: P475779

Luminaire Tested: **24GR-LD5-42-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475779
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-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: 4306.3 lumens
Efficiency: N/A
Efficacy: 142.1 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

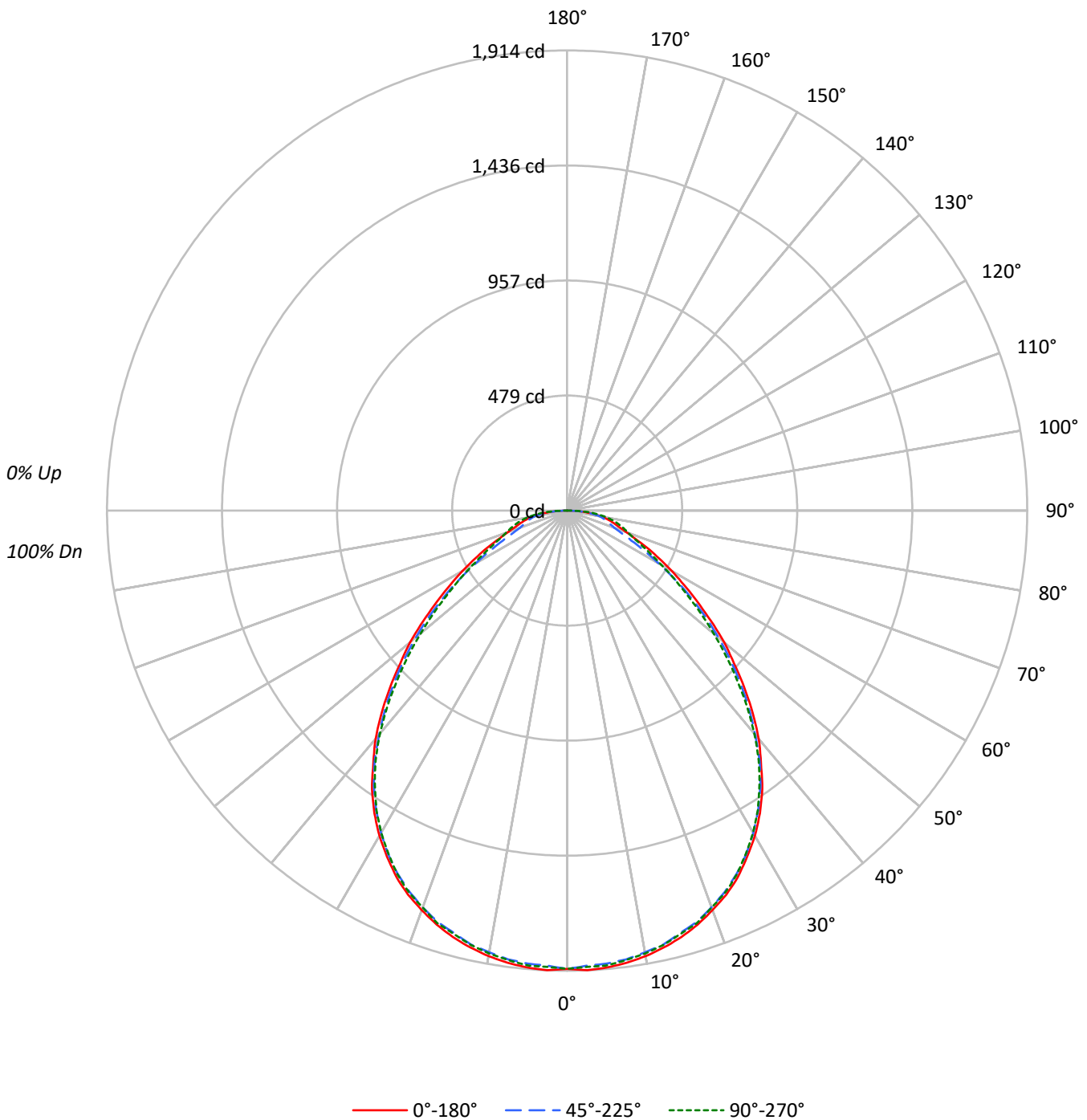
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2565	2565	2565
5°	2577	2554	2565
10°	2571	2549	2556
15°	2558	2533	2539
20°	2532	2514	2516
25°	2496	2475	2479
30°	2426	2405	2403
35°	2325	2302	2290
40°	2178	2135	2126
45°	1983	1943	1906
50°	1785	1722	1666
55°	1549	1465	1421
60°	1353	1181	1222
65°	1171	939	1086
70°	1032	823	1061
75°	1037	895	1160
80°	1135	1063	1314
85°	1196	1158	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	4.2
10°-20°	514.7	12.0
20°-30°	767.4	17.8
30°-40°	872.4	20.3
40°-50°	786.2	18.3
50°-60°	566.3	13.2
60°-70°	329.4	7.6
70°-80°	201.5	4.7
80°-90°	88.2	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°	1462.2	34.0
0°-40°	2334.6	54.2
0°-60°	3687.1	85.6
0°-90°	4306.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1908	1894	1891	1895	1899	181
15°	1836	1826	1819	1822	1823	518
25°	1681	1671	1667	1665	1670	772
35°	1415	1405	1401	1393	1394	881
45°	1042	1030	1021	1005	1002	804
55°	660	645	624	618	606	595
65°	368	331	295	318	341	368
75°	199	181	172	196	223	212
85°	78	77	75	102	98	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.0	1906.0	1906.0	1906.0	1906.0
2.5°	1913.7	1903.4	1894.9	1895.3	1899.6
5°	1907.7	1894.5	1891.1	1894.9	1899.2
7.5°	1897.0	1884.7	1882.6	1880.4	1885.5
10°	1881.7	1873.2	1865.5	1867.6	1870.6
12.5°	1861.3	1854.0	1848.5	1844.2	1850.6
15°	1836.5	1826.3	1818.7	1821.6	1822.9
17.5°	1805.5	1795.7	1793.5	1791.8	1798.2
20°	1768.4	1762.4	1756.0	1757.7	1756.9
22.5°	1729.2	1720.2	1715.1	1712.6	1719.4
25°	1681.1	1670.8	1667.4	1664.9	1670.0
27.5°	1622.3	1616.7	1612.0	1608.6	1609.1
30°	1561.8	1556.2	1547.7	1545.2	1546.9
32.5°	1492.3	1485.9	1478.3	1470.6	1476.1
35°	1415.2	1405.4	1401.2	1393.1	1394.3
37.5°	1324.1	1319.8	1316.0	1305.3	1308.7
40°	1240.1	1228.6	1215.8	1209.5	1210.7
42.5°	1143.0	1131.1	1120.8	1111.9	1107.6
45°	1042.0	1030.1	1021.2	1005.4	1001.6
47.5°	941.5	930.4	920.6	908.3	897.2
50°	852.9	832.4	822.6	809.9	795.8
52.5°	753.2	741.3	722.1	711.4	698.7
55°	660.3	644.6	624.5	618.1	605.8
57.5°	576.8	559.8	530.4	527.8	527.4
60°	502.7	479.7	438.8	441.8	454.1
62.5°	430.7	397.9	360.8	374.0	392.4
65°	367.7	330.6	294.8	317.8	341.2
67.5°	307.2	273.9	243.7	274.4	299.1
70°	262.4	234.7	209.2	242.0	269.7
72.5°	224.9	203.6	187.0	216.8	246.7
75°	199.4	180.6	172.1	196.0	223.2
77.5°	175.5	158.9	156.3	177.6	197.7
80°	146.5	135.0	137.2	158.9	169.6
82.5°	111.6	108.2	108.6	135.9	138.0
85°	77.5	76.7	75.0	101.8	97.6
87.5°	39.2	40.0	39.6	57.9	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)