

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: P475719

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475719
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160.4 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

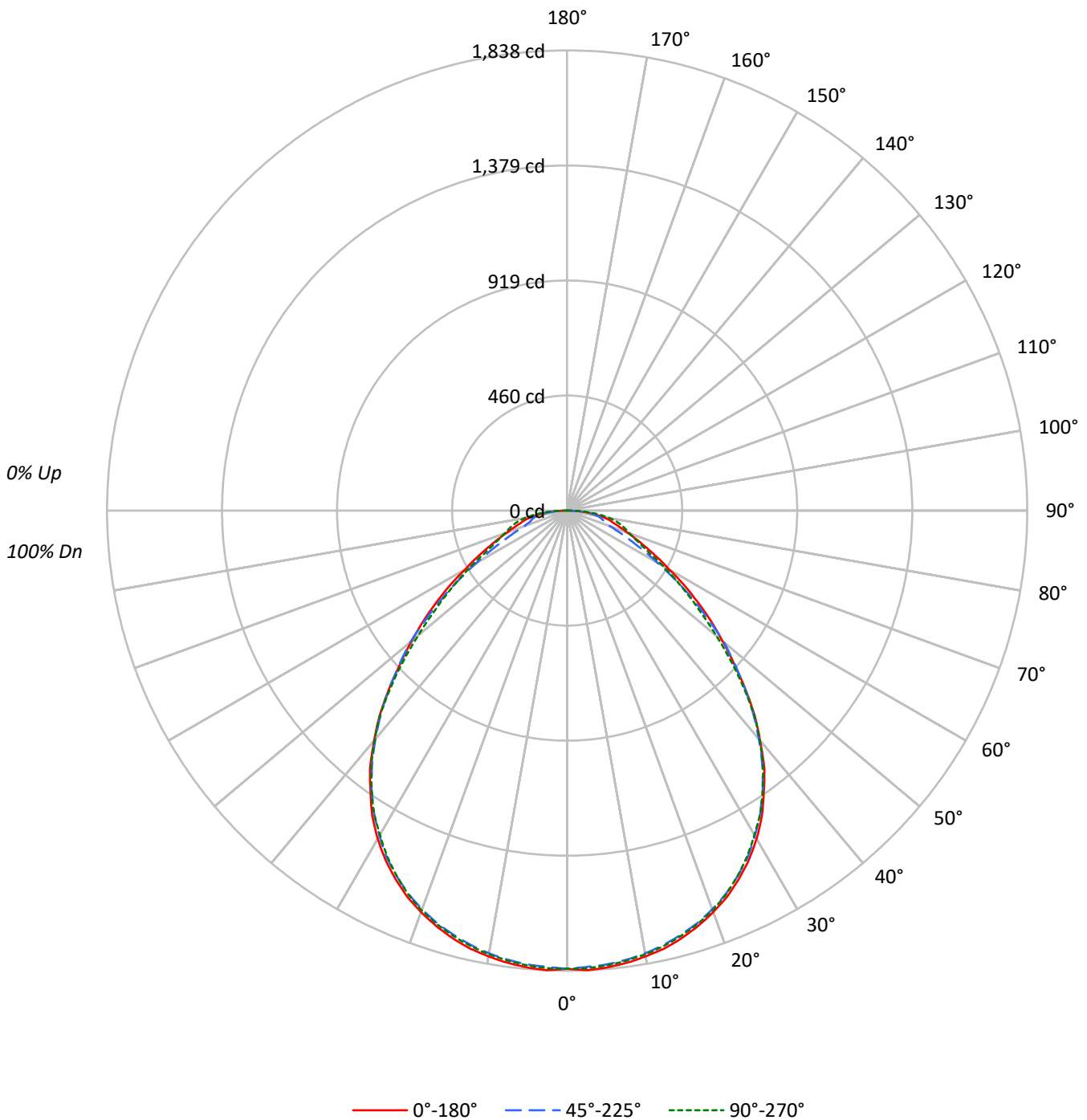
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475719

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475719

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L835-CD1-U

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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	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°	2462	2462	2462
5°	2474	2458	2463
10°	2470	2454	2459
15°	2463	2444	2450
20°	2444	2427	2433
25°	2410	2392	2391
30°	2352	2330	2324
35°	2251	2237	2237
40°	2106	2094	2102
45°	1912	1909	1893
50°	1696	1709	1625
55°	1491	1425	1392
60°	1269	1125	1184
65°	1109	875	1045
70°	1002	720	1042
75°	1003	769	1165
80°	1105	946	1333
85°	1138	1062	1454



TEST NUMBER: P475719

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	4.2
10°-20°	496.1	11.9
20°-30°	742.1	17.8
30°-40°	849.2	20.4
40°-50°	769.4	18.5
50°-60°	544.7	13.1
60°-70°	314.7	7.6
70°-80°	190.8	4.6
80°-90°	80.3	1.9
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°	1411.4	33.9
0°-40°	2260.6	54.3
0°-60°	3574.7	85.9
0°-90°	4160.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1832	1825	1820	1819	1824	174
15°	1768	1762	1754	1754	1759	499
25°	1623	1617	1612	1610	1610	747
35°	1370	1364	1362	1360	1362	855
45°	1005	1003	1003	996	995	774
55°	635	614	608	590	593	569
65°	348	312	275	315	328	350
75°	193	173	148	190	224	207
85°	74	66	69	88	94	79
90°	0	0	0	0	0	



TEST NUMBER: P475719

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.9	1829.9	1829.9	1829.9	1829.9
2.5°	1837.7	1830.7	1824.5	1825.4	1829.9
5°	1831.9	1825.4	1819.6	1819.2	1823.7
7.5°	1822.1	1816.4	1809.8	1809.8	1813.5
10°	1808.2	1802.4	1795.9	1795.5	1799.6
12.5°	1791.8	1784.4	1777.4	1777.4	1781.9
15°	1768.4	1761.5	1754.5	1754.5	1758.6
17.5°	1739.8	1733.6	1727.9	1728.3	1731.6
20°	1707.0	1700.8	1694.7	1695.5	1699.2
22.5°	1669.3	1661.9	1657.0	1656.6	1659.1
25°	1623.4	1616.9	1611.5	1610.3	1610.3
27.5°	1572.2	1565.2	1561.6	1555.8	1557.5
30°	1513.6	1506.3	1499.7	1496.4	1496.0
32.5°	1447.7	1440.3	1434.6	1434.2	1435.8
35°	1370.3	1364.1	1361.7	1359.6	1361.7
37.5°	1293.7	1282.2	1280.1	1279.7	1285.0
40°	1199.0	1194.9	1192.1	1190.0	1197.0
42.5°	1108.1	1099.9	1100.7	1092.9	1105.2
45°	1004.9	1002.8	1003.2	995.8	995.0
47.5°	902.4	902.0	908.2	887.7	886.5
50°	810.3	806.2	816.4	784.9	776.3
52.5°	722.2	710.7	707.5	678.8	678.8
55°	635.4	614.1	607.5	589.5	593.2
57.5°	553.0	522.7	509.2	508.8	514.9
60°	471.5	437.1	418.2	433.0	440.0
62.5°	406.8	369.1	340.4	368.3	374.8
65°	348.2	312.1	274.9	314.6	328.1
67.5°	297.8	267.9	221.2	273.2	291.3
70°	254.8	228.2	183.1	240.9	265.0
72.5°	220.8	198.7	159.4	215.1	244.1
75°	192.9	172.9	147.9	190.1	224.1
77.5°	170.8	147.1	138.5	166.3	201.1
80°	142.6	120.8	122.1	143.0	172.0
82.5°	109.8	93.4	98.3	118.4	135.2
85°	73.7	66.4	68.8	88.1	94.2
87.5°	36.5	35.2	37.7	51.6	51.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)