

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: P475572

Luminaire Tested: **24GR-LD5-64-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475572
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464.6 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

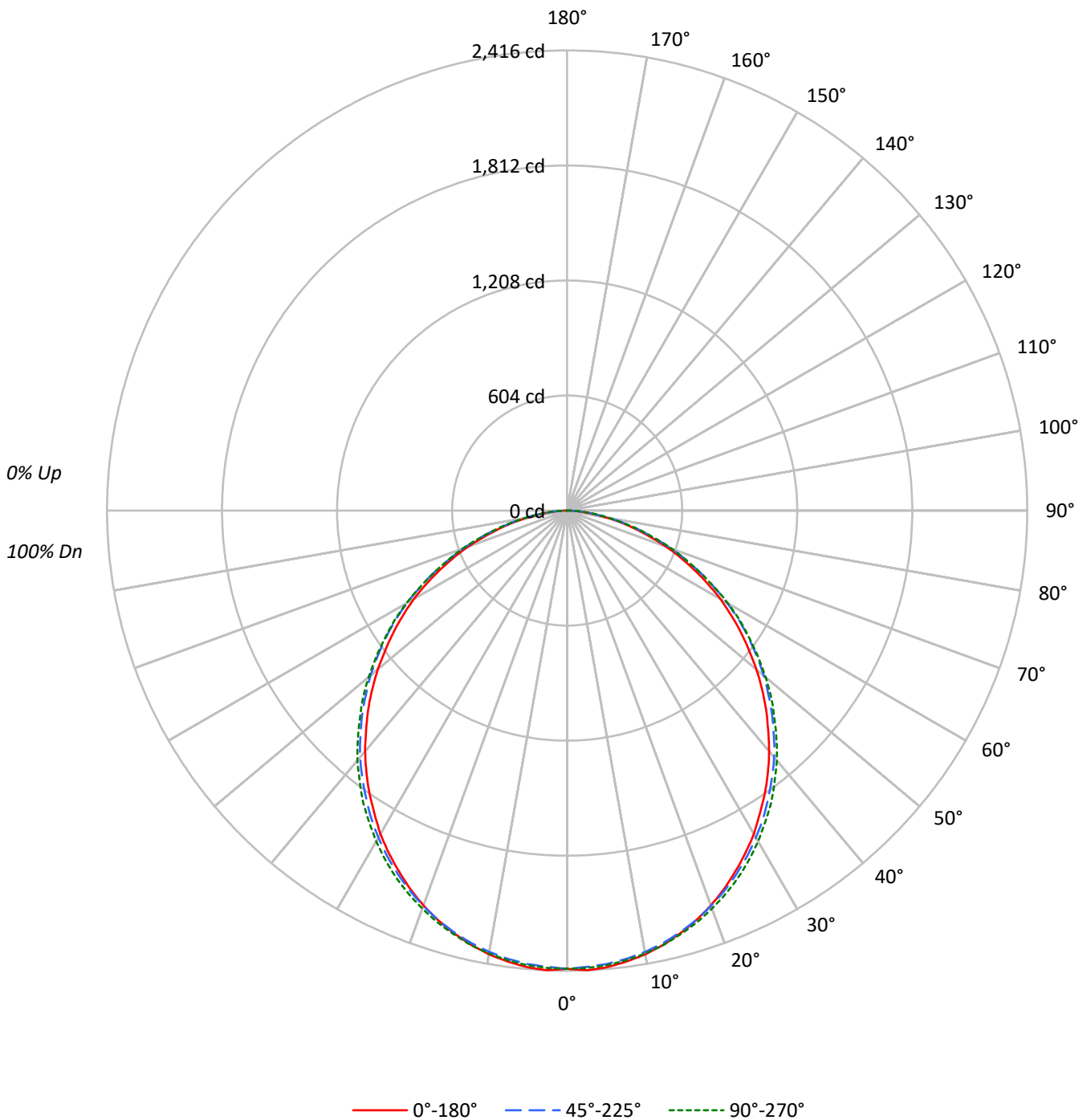
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475572

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475572

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L850-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	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76		82	78	74		79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3236	3236	3236
5°	3250	3227	3236
10°	3232	3214	3226
15°	3199	3193	3207
20°	3159	3163	3184
25°	3103	3124	3156
30°	3047	3080	3115
35°	2974	3024	3070
40°	2899	2971	3009
45°	2812	2898	2928
50°	2717	2821	2847
55°	2610	2726	2741
60°	2503	2614	2624
65°	2345	2457	2450
70°	2172	2272	2295
75°	1925	2037	2050
80°	1602	1719	1759
85°	1213	1331	1497



TEST NUMBER: P475572

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	3.5
10°-20°	647.2	10.0
20°-30°	969.8	15.0
30°-40°	1150.6	17.8
40°-50°	1168.5	18.1
50°-60°	1029.0	15.9
60°-70°	756.1	11.7
70°-80°	411.3	6.4
80°-90°	104.8	1.6
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°	1844.3	28.5
0°-40°	2994.9	46.3
0°-60°	5192.4	80.3
0°-90°	6464.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6464.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2405	2405	2405	2405	2405	
5°	2407	2396	2390	2390	2396	228
15°	2297	2292	2292	2296	2303	648
25°	2090	2093	2104	2116	2126	963
35°	1811	1821	1841	1860	1869	1132
45°	1478	1490	1523	1541	1539	1139
55°	1113	1128	1162	1173	1168	995
65°	737	749	772	777	770	730
75°	370	378	392	393	394	394
85°	79	80	86	94	97	95
90°	0	0	0	0	0	



TEST NUMBER: P475572

CATALOG NUMBER: 24GR-LD5-64-F1-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2405.3	2405.3	2405.3	2405.3	2405.3
2.5°	2415.5	2406.0	2397.7	2397.7	2403.4
5°	2406.6	2396.5	2389.5	2389.5	2395.8
7.5°	2388.2	2380.0	2374.3	2374.3	2381.3
10°	2365.4	2357.2	2352.7	2353.4	2361.0
12.5°	2335.0	2327.4	2325.5	2326.7	2336.2
15°	2296.9	2292.5	2292.5	2295.7	2302.6
17.5°	2254.5	2250.0	2253.2	2257.6	2266.5
20°	2206.3	2203.1	2208.8	2215.8	2224.0
22.5°	2151.1	2149.8	2159.4	2168.9	2177.1
25°	2090.3	2092.8	2104.2	2116.2	2125.8
27.5°	2027.5	2030.0	2045.9	2058.6	2068.1
30°	1960.9	1962.2	1982.5	1997.7	2004.7
32.5°	1883.6	1893.7	1915.3	1929.9	1936.2
35°	1810.7	1820.8	1841.1	1859.5	1869.0
37.5°	1731.4	1740.3	1766.9	1786.6	1789.7
40°	1650.3	1658.5	1691.5	1708.0	1713.0
42.5°	1561.5	1577.4	1607.2	1623.6	1626.8
45°	1477.8	1489.9	1522.8	1540.6	1538.7
47.5°	1388.4	1401.7	1434.1	1451.2	1454.4
50°	1297.8	1313.0	1347.9	1359.3	1359.9
52.5°	1202.7	1222.3	1254.0	1269.2	1264.2
55°	1112.6	1128.5	1162.1	1172.9	1168.4
57.5°	1020.1	1037.8	1068.9	1074.6	1075.2
60°	930.1	944.6	971.3	977.0	975.1
62.5°	831.2	845.7	869.8	875.5	871.1
65°	736.7	748.7	771.6	777.3	769.7
67.5°	642.9	654.9	672.7	681.5	673.3
70°	552.2	561.7	577.6	582.6	583.3
72.5°	455.8	473.0	484.4	483.7	481.8
75°	370.2	377.9	391.8	393.1	394.3
77.5°	288.5	290.4	304.9	308.8	306.2
80°	206.7	213.7	221.9	226.3	227.0
82.5°	136.3	141.4	148.4	156.0	156.0
85°	78.6	80.5	86.2	93.8	97.0
87.5°	31.7	34.9	40.6	46.3	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)