

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: P475702

Luminaire Tested: **24GR-LD5-34-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475702
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3231.3 lumens
Efficiency: N/A
Efficacy: 134.6 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

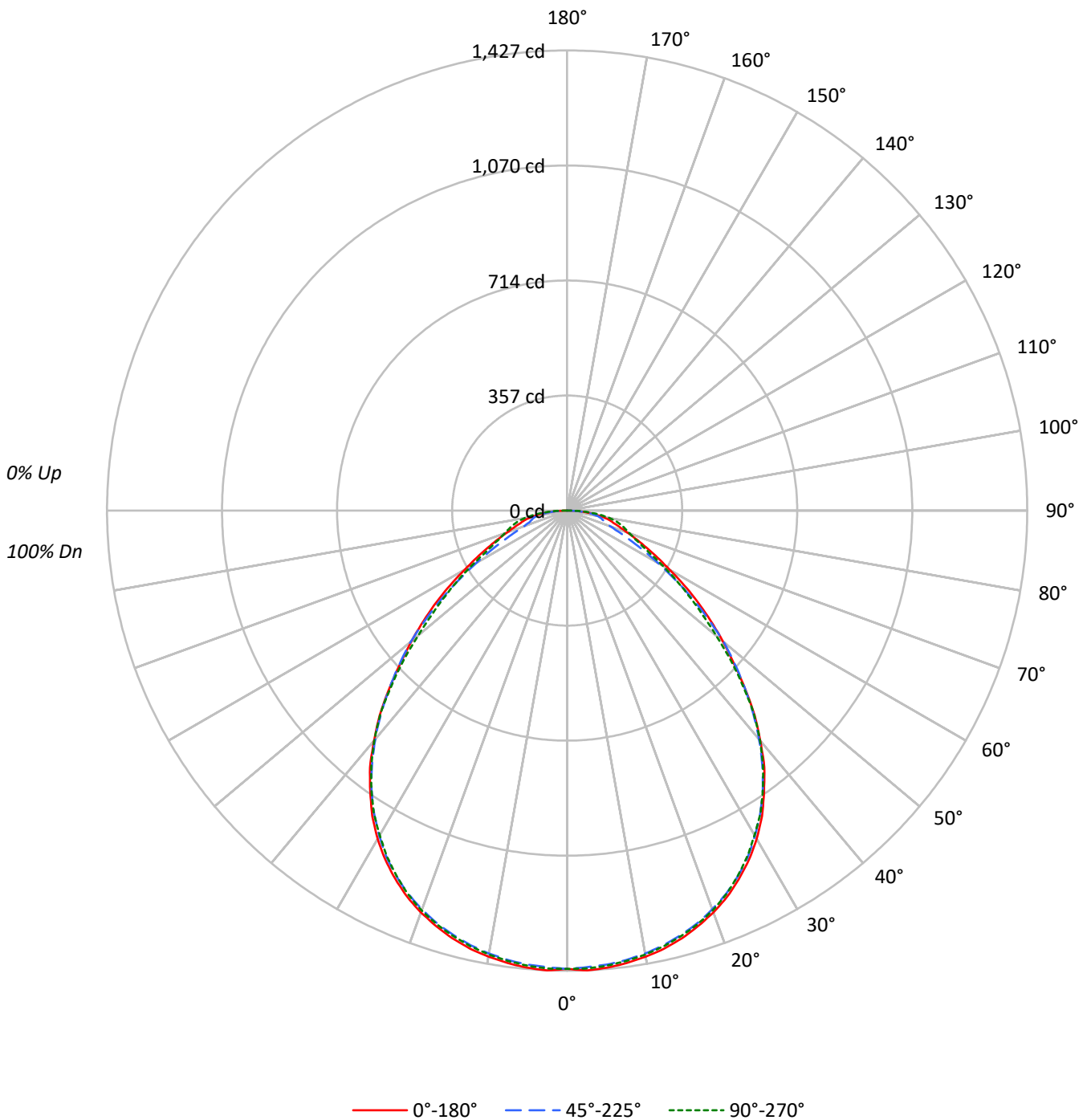
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56				56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1912	1912	1912
5°	1922	1909	1913
10°	1919	1906	1910
15°	1913	1898	1903
20°	1898	1885	1890
25°	1872	1858	1857
30°	1826	1810	1805
35°	1748	1737	1737
40°	1636	1626	1633
45°	1485	1483	1470
50°	1317	1327	1262
55°	1158	1107	1081
60°	985	874	920
65°	861	680	811
70°	779	559	810
75°	779	597	905
80°	858	735	1035
85°	885	826	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	4.2
10°-20°	385.3	11.9
20°-30°	576.4	17.8
30°-40°	659.6	20.4
40°-50°	597.6	18.5
50°-60°	423.1	13.1
60°-70°	244.4	7.6
70°-80°	148.2	4.6
80°-90°	62.4	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°	1096.2	33.9
0°-40°	1755.8	54.3
0°-60°	2776.4	85.9
0°-90°	3231.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1423	1418	1413	1413	1416	135
15°	1374	1368	1363	1363	1366	387
25°	1261	1256	1252	1251	1251	580
35°	1064	1060	1058	1056	1058	664
45°	780	779	779	773	773	601
55°	494	477	472	458	461	442
65°	270	242	214	244	255	272
75°	150	134	115	148	174	161
85°	57	52	54	68	73	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1427.3	1421.9	1417.1	1417.7	1421.2
5°	1422.8	1417.7	1413.3	1413.0	1416.5
7.5°	1415.2	1410.7	1405.6	1405.6	1408.5
10°	1404.4	1399.9	1394.8	1394.5	1397.7
12.5°	1391.6	1385.9	1380.5	1380.5	1384.0
15°	1373.5	1368.1	1362.7	1362.7	1365.9
17.5°	1351.2	1346.5	1342.0	1342.3	1344.9
20°	1325.8	1321.0	1316.2	1316.9	1319.7
22.5°	1296.5	1290.8	1287.0	1286.6	1288.6
25°	1260.9	1255.8	1251.6	1250.7	1250.7
27.5°	1221.1	1215.7	1212.8	1208.4	1209.6
30°	1175.6	1169.9	1164.8	1162.2	1161.9
32.5°	1124.4	1118.7	1114.2	1113.9	1115.2
35°	1064.2	1059.5	1057.6	1056.0	1057.6
37.5°	1004.8	995.8	994.3	993.9	998.1
40°	931.3	928.1	925.8	924.3	929.7
42.5°	860.6	854.3	854.9	848.9	858.4
45°	780.4	778.9	779.2	773.4	772.8
47.5°	700.9	700.6	705.4	689.5	688.5
50°	629.3	626.1	634.1	609.6	602.9
52.5°	560.9	552.0	549.5	527.2	527.2
55°	493.5	476.9	471.8	457.8	460.7
57.5°	429.5	406.0	395.5	395.2	399.9
60°	366.2	339.5	324.8	336.3	341.7
62.5°	315.9	286.7	264.4	286.0	291.1
65°	270.4	242.4	213.5	244.3	254.8
67.5°	231.3	208.1	171.8	212.2	226.2
70°	197.9	177.2	142.2	187.1	205.9
72.5°	171.5	154.3	123.8	167.0	189.6
75°	149.9	134.3	114.9	147.6	174.0
77.5°	132.7	114.2	107.5	129.2	156.2
80°	110.7	93.9	94.8	111.0	133.6
82.5°	85.3	72.5	76.4	91.9	105.0
85°	57.3	51.5	53.5	68.4	73.2
87.5°	28.3	27.4	29.3	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)