

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: P475732

Luminaire Tested: **24GR-LD5-34-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475732
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-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3412.1 lumens
Efficiency: N/A
Efficacy: 142.2 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

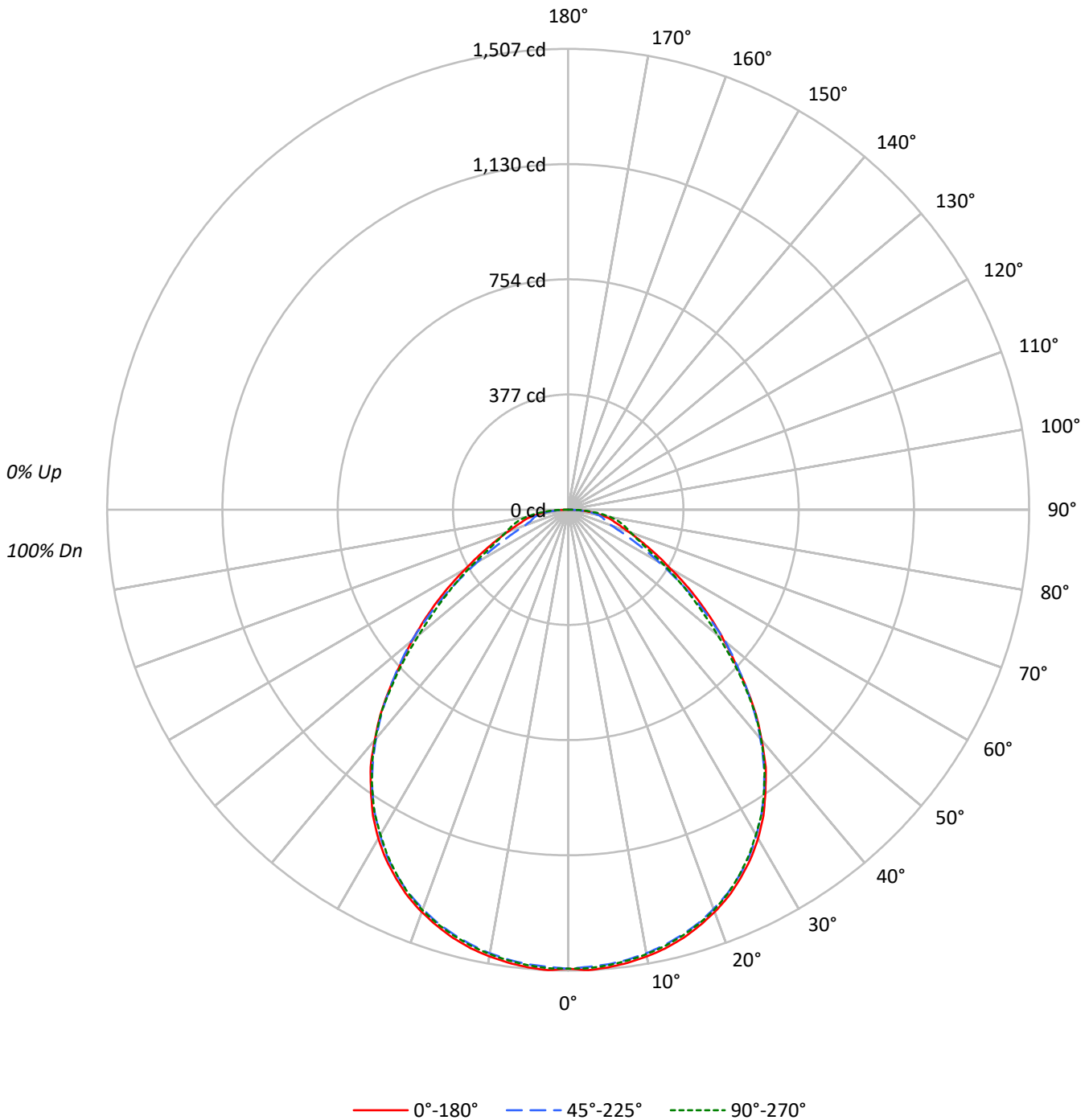
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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				
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°	2019	2019	2019
5°	2029	2016	2020
10°	2026	2012	2016
15°	2020	2004	2009
20°	2005	1990	1995
25°	1977	1962	1961
30°	1929	1911	1906
35°	1846	1834	1834
40°	1727	1717	1724
45°	1568	1566	1553
50°	1391	1402	1333
55°	1222	1169	1141
60°	1041	923	971
65°	909	718	857
70°	822	591	855
75°	822	631	955
80°	906	776	1093
85°	934	871	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	4.2
10°-20°	406.8	11.9
20°-30°	608.6	17.8
30°-40°	696.5	20.4
40°-50°	631.0	18.5
50°-60°	446.7	13.1
60°-70°	258.1	7.6
70°-80°	156.5	4.6
80°-90°	65.8	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°	1157.5	33.9
0°-40°	1854.0	54.3
0°-60°	2931.7	85.9
0°-90°	3412.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1502	1497	1492	1492	1496	143
15°	1450	1445	1439	1439	1442	409
25°	1331	1326	1322	1321	1321	612
35°	1124	1119	1117	1115	1117	701
45°	824	822	823	817	816	635
55°	521	504	498	484	486	467
65°	286	256	225	258	269	287
75°	158	142	121	156	184	170
85°	60	54	56	72	77	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.8	1500.8	1500.8	1500.8	1500.8
2.5°	1507.1	1501.4	1496.4	1497.1	1500.8
5°	1502.4	1497.1	1492.4	1492.0	1495.7
7.5°	1494.4	1489.7	1484.3	1484.3	1487.3
10°	1482.9	1478.2	1472.9	1472.5	1475.9
12.5°	1469.5	1463.5	1457.8	1457.8	1461.4
15°	1450.4	1444.6	1438.9	1438.9	1442.3
17.5°	1426.8	1421.8	1417.1	1417.4	1420.1
20°	1400.0	1394.9	1389.9	1390.6	1393.6
22.5°	1369.1	1363.0	1359.0	1358.6	1360.7
25°	1331.4	1326.1	1321.7	1320.7	1320.7
27.5°	1289.4	1283.7	1280.7	1276.0	1277.3
30°	1241.4	1235.3	1230.0	1227.3	1226.9
32.5°	1187.3	1181.3	1176.5	1176.2	1177.6
35°	1123.8	1118.8	1116.7	1115.1	1116.7
37.5°	1061.0	1051.6	1049.9	1049.6	1053.9
40°	983.4	980.0	977.7	976.0	981.7
42.5°	908.8	902.1	902.7	896.4	906.4
45°	824.1	822.4	822.8	816.7	816.1
47.5°	740.1	739.8	744.8	728.0	727.0
50°	664.5	661.2	669.6	643.7	636.7
52.5°	592.3	582.9	580.2	556.7	556.7
55°	521.1	503.6	498.2	483.5	486.5
57.5°	453.6	428.7	417.6	417.3	422.3
60°	386.7	358.5	343.0	355.1	360.8
62.5°	333.6	302.7	279.2	302.0	307.4
65°	285.6	256.0	225.4	258.0	269.1
67.5°	244.2	219.7	181.4	224.1	238.9
70°	209.0	187.1	150.2	197.5	217.4
72.5°	181.1	162.9	130.7	176.4	200.2
75°	158.2	141.8	121.3	155.9	183.8
77.5°	140.1	120.6	113.6	136.4	165.0
80°	116.9	99.1	100.1	117.3	141.1
82.5°	90.0	76.6	80.6	97.1	110.9
85°	60.5	54.4	56.4	72.2	77.3
87.5°	29.9	28.9	30.9	42.3	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)