

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: P475746

Luminaire Tested: **24GR-LD5-30-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475746
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3036.5 lumens
Efficiency: N/A
Efficacy: 142.6 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

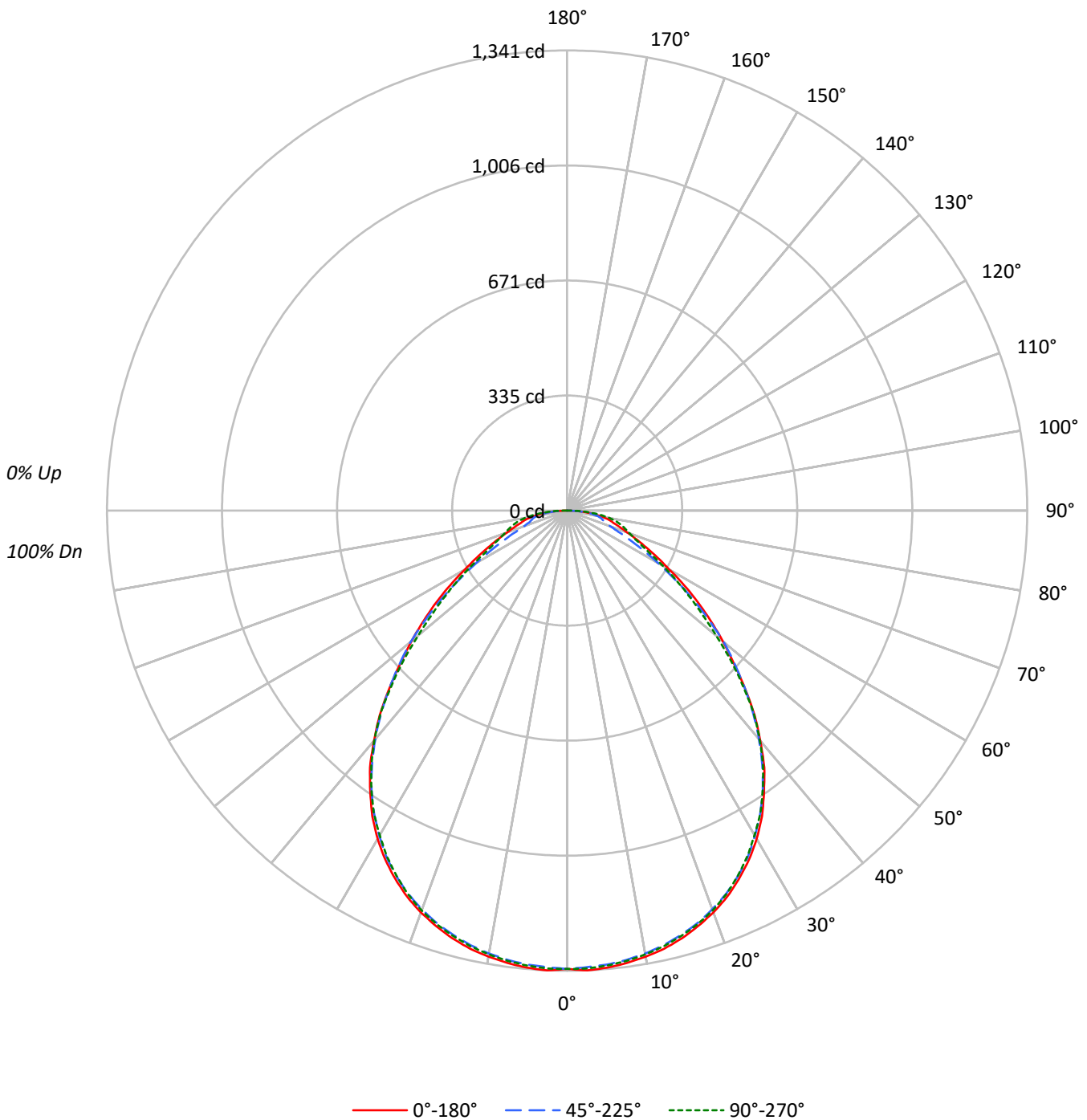
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1797	1797	1797
5°	1806	1794	1798
10°	1803	1791	1794
15°	1798	1784	1788
20°	1784	1771	1776
25°	1759	1746	1745
30°	1716	1701	1696
35°	1643	1632	1632
40°	1537	1528	1534
45°	1396	1393	1382
50°	1238	1247	1186
55°	1088	1040	1015
60°	926	822	864
65°	809	639	762
70°	732	526	761
75°	732	561	850
80°	806	690	973
85°	831	775	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	4.2
10°-20°	362.1	11.9
20°-30°	541.6	17.8
30°-40°	619.8	20.4
40°-50°	561.5	18.5
50°-60°	397.5	13.1
60°-70°	229.7	7.6
70°-80°	139.2	4.6
80°-90°	58.6	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°	1030.1	33.9
0°-40°	1649.9	54.3
0°-60°	2609.0	85.9
0°-90°	3036.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3036.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1337	1332	1328	1328	1331	127
15°	1291	1286	1280	1280	1284	364
25°	1185	1180	1176	1175	1175	545
35°	1000	996	994	992	994	624
45°	733	732	732	727	726	565
55°	464	448	443	430	433	416
65°	254	228	201	230	240	255
75°	141	126	108	139	164	151
85°	54	48	50	64	69	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1341.2	1336.2	1331.7	1332.3	1335.6
5°	1337.1	1332.3	1328.1	1327.8	1331.1
7.5°	1329.9	1325.7	1320.9	1320.9	1323.6
10°	1319.7	1315.5	1310.7	1310.4	1313.4
12.5°	1307.8	1302.4	1297.3	1297.3	1300.6
15°	1290.7	1285.6	1280.5	1280.5	1283.5
17.5°	1269.8	1265.3	1261.1	1261.4	1263.8
20°	1245.9	1241.4	1236.9	1237.5	1240.2
22.5°	1218.4	1213.0	1209.4	1209.1	1210.9
25°	1184.9	1180.1	1176.2	1175.3	1175.3
27.5°	1147.5	1142.4	1139.7	1135.5	1136.7
30°	1104.7	1099.4	1094.6	1092.2	1091.9
32.5°	1056.6	1051.2	1047.0	1046.7	1047.9
35°	1000.1	995.6	993.8	992.3	993.8
37.5°	944.2	935.8	934.3	934.0	937.9
40°	875.1	872.1	870.0	868.5	873.6
42.5°	808.7	802.8	803.4	797.7	806.7
45°	733.4	731.9	732.2	726.8	726.2
47.5°	658.7	658.4	662.8	647.9	647.0
50°	591.4	588.4	595.9	572.9	566.6
52.5°	527.1	518.7	516.3	495.4	495.4
55°	463.7	448.2	443.4	430.2	432.9
57.5°	403.6	381.5	371.6	371.3	375.8
60°	344.1	319.0	305.3	316.0	321.1
62.5°	296.9	269.4	248.5	268.8	273.6
65°	254.1	227.8	200.6	229.6	239.5
67.5°	217.4	195.5	161.5	199.4	212.6
70°	186.0	166.5	133.6	175.8	193.4
72.5°	161.2	145.0	116.3	157.0	178.2
75°	140.8	126.2	107.9	138.7	163.5
77.5°	124.7	107.3	101.1	121.4	146.8
80°	104.0	88.2	89.1	104.3	125.6
82.5°	80.1	68.2	71.8	86.4	98.7
85°	53.8	48.4	50.2	64.3	68.8
87.5°	26.6	25.7	27.5	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)