

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: P475776

Luminaire Tested: **24GR-LD5-30-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475776
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.4 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

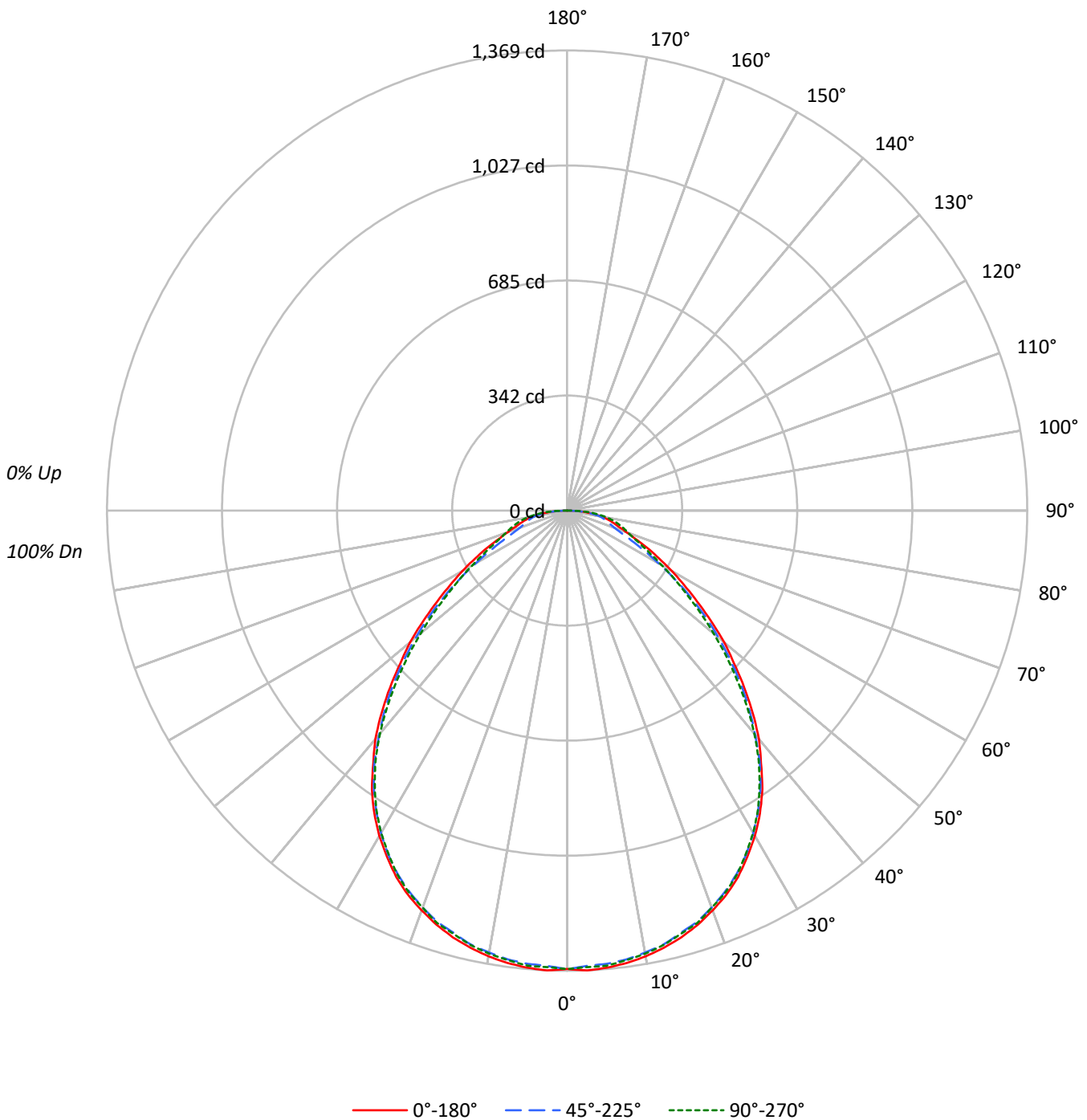
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	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	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	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°	1835	1835	1835
5°	1844	1828	1836
10°	1840	1824	1829
15°	1830	1813	1817
20°	1812	1799	1800
25°	1786	1771	1774
30°	1736	1721	1720
35°	1663	1647	1639
40°	1559	1528	1522
45°	1419	1390	1364
50°	1277	1232	1192
55°	1108	1048	1017
60°	968	845	875
65°	838	671	777
70°	739	589	759
75°	742	640	830
80°	813	761	940
85°	857	829	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	4.2
10°-20°	368.3	12.0
20°-30°	549.1	17.8
30°-40°	624.2	20.3
40°-50°	562.6	18.3
50°-60°	405.2	13.2
60°-70°	235.7	7.6
70°-80°	144.2	4.7
80°-90°	63.1	2.0
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°	1046.3	34.0
0°-40°	1670.6	54.2
0°-60°	2638.3	85.6
0°-90°	3081.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1365	1356	1353	1356	1359	130
15°	1314	1307	1301	1304	1304	370
25°	1203	1196	1193	1191	1195	553
35°	1013	1006	1003	997	998	630
45°	746	737	731	719	717	575
55°	472	461	447	442	434	426
65°	263	237	211	227	244	263
75°	143	129	123	140	160	152
85°	56	55	54	73	70	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.8	1363.8	1363.8	1363.8	1363.8
2.5°	1369.3	1362.0	1355.9	1356.2	1359.3
5°	1365.1	1355.6	1353.2	1355.9	1359.0
7.5°	1357.4	1348.6	1347.1	1345.5	1349.2
10°	1346.5	1340.4	1334.9	1336.4	1338.5
12.5°	1331.8	1326.6	1322.7	1319.6	1324.2
15°	1314.1	1306.8	1301.3	1303.5	1304.4
17.5°	1291.9	1284.9	1283.4	1282.1	1286.7
20°	1265.4	1261.1	1256.5	1257.8	1257.1
22.5°	1237.3	1230.9	1227.3	1225.4	1230.3
25°	1202.9	1195.6	1193.1	1191.3	1195.0
27.5°	1160.8	1156.9	1153.5	1151.1	1151.4
30°	1117.5	1113.6	1107.5	1105.6	1106.9
32.5°	1067.8	1063.3	1057.8	1052.3	1056.3
35°	1012.7	1005.7	1002.6	996.8	997.7
37.5°	947.4	944.4	941.6	934.0	936.5
40°	887.4	879.1	870.0	865.4	866.3
42.5°	817.9	809.3	802.0	795.6	792.6
45°	745.6	737.1	730.7	719.4	716.7
47.5°	673.7	665.8	658.7	649.9	642.0
50°	610.3	595.6	588.6	579.5	569.4
52.5°	538.9	530.4	516.7	509.1	499.9
55°	472.5	461.2	446.9	442.3	433.5
57.5°	412.7	400.6	379.5	377.7	377.4
60°	359.7	343.2	314.0	316.1	325.0
62.5°	308.2	284.7	258.2	267.6	280.8
65°	263.1	236.6	210.9	227.4	244.2
67.5°	219.8	196.0	174.4	196.3	214.0
70°	187.8	168.0	149.7	173.1	193.0
72.5°	161.0	145.7	133.8	155.2	176.5
75°	142.7	129.3	123.2	140.2	159.7
77.5°	125.6	113.7	111.9	127.1	141.4
80°	104.9	96.6	98.2	113.7	121.3
82.5°	79.9	77.4	77.7	97.2	98.8
85°	55.5	54.9	53.7	72.9	69.8
87.5°	28.0	28.7	28.3	41.5	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)