

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: P475536

Luminaire Tested: **24GR-LD5-30-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475536
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F1-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.9 lumens
Efficiency: N/A
Efficacy: 144.1 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

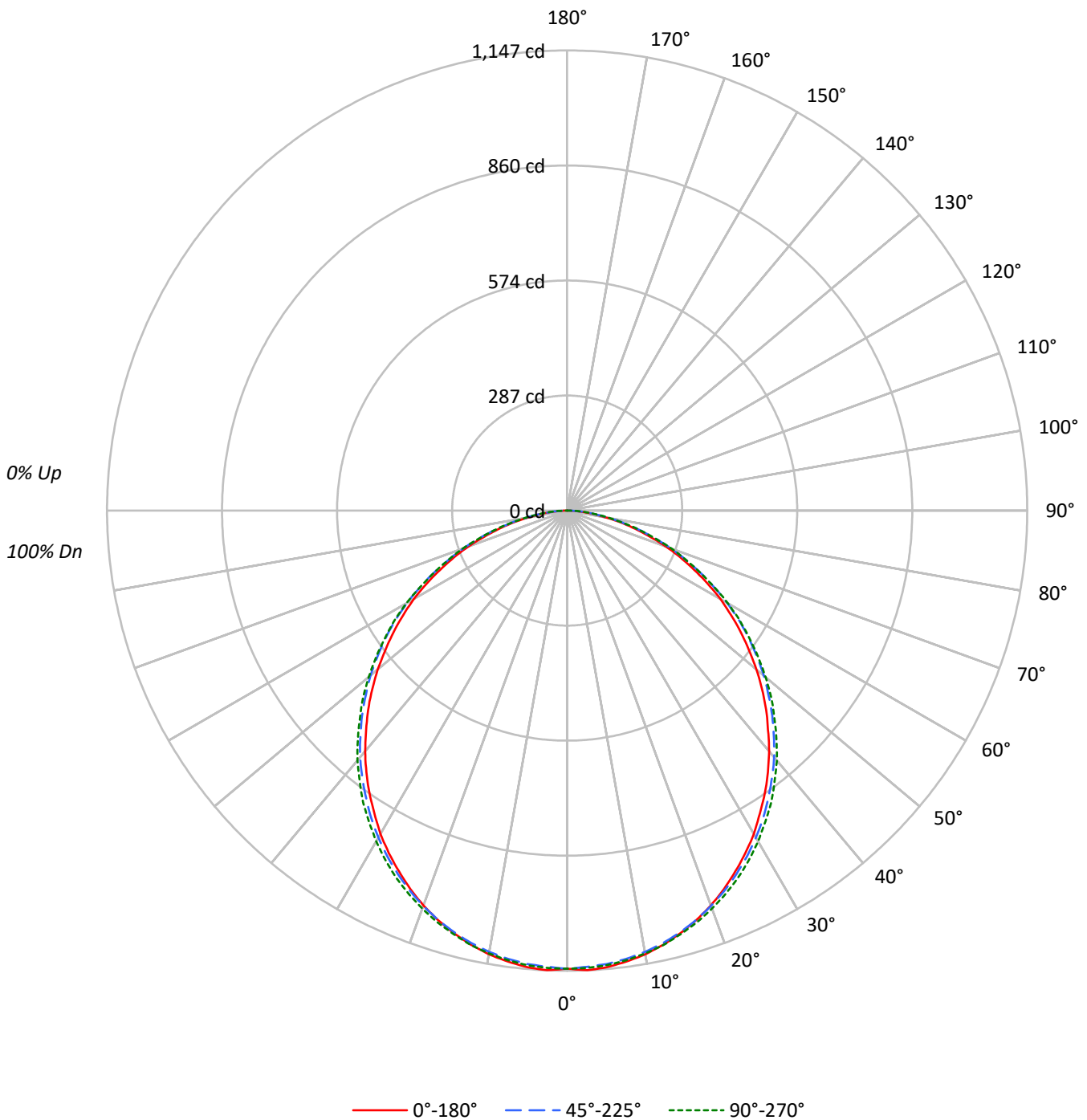
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475536

CATALOG NUMBER: 24GR-LD5-30-F1-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475536

CATALOG NUMBER: 24GR-LD5-30-F1-UNV-L835-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	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70					70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1536	1536	1536
5°	1543	1532	1536
10°	1534	1526	1531
15°	1519	1516	1523
20°	1500	1501	1512
25°	1473	1483	1498
30°	1446	1462	1479
35°	1412	1436	1457
40°	1376	1410	1428
45°	1335	1376	1390
50°	1290	1339	1351
55°	1239	1294	1301
60°	1188	1241	1246
65°	1113	1166	1163
70°	1031	1079	1089
75°	914	967	973
80°	760	816	834
85°	576	631	710



TEST NUMBER: P475536

CATALOG NUMBER: 24GR-LD5-30-F1-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.5
10°-20°	307.3	10.0
20°-30°	460.4	15.0
30°-40°	546.2	17.8
40°-50°	554.7	18.1
50°-60°	488.5	15.9
60°-70°	358.9	11.7
70°-80°	195.2	6.4
80°-90°	49.7	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°	875.6	28.5
0°-40°	1421.8	46.3
0°-60°	2465.0	80.3
0°-90°	3068.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1142	1138	1134	1134	1137	108
15°	1090	1088	1088	1090	1093	307
25°	992	994	999	1005	1009	457
35°	860	864	874	883	887	537
45°	702	707	723	731	730	541
55°	528	536	552	557	555	472
65°	350	355	366	369	365	347
75°	176	179	186	187	187	187
85°	37	38	41	44	46	45
90°	0	0	0	0	0	



TEST NUMBER: P475536

CATALOG NUMBER: 24GR-LD5-30-F1-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1146.7	1142.2	1138.3	1138.3	1141.0
5°	1142.5	1137.7	1134.4	1134.4	1137.4
7.5°	1133.8	1129.8	1127.1	1127.1	1130.4
10°	1122.9	1119.0	1116.9	1117.2	1120.8
12.5°	1108.5	1104.9	1104.0	1104.6	1109.1
15°	1090.4	1088.3	1088.3	1089.8	1093.1
17.5°	1070.3	1068.1	1069.7	1071.8	1076.0
20°	1047.4	1045.9	1048.6	1051.9	1055.8
22.5°	1021.2	1020.6	1025.1	1029.6	1033.5
25°	992.3	993.5	998.9	1004.6	1009.2
27.5°	962.5	963.7	971.2	977.3	981.8
30°	930.9	931.5	941.1	948.4	951.7
32.5°	894.2	899.0	909.2	916.2	919.2
35°	859.6	864.4	874.0	882.7	887.3
37.5°	822.0	826.2	838.8	848.1	849.6
40°	783.4	787.3	803.0	810.8	813.2
42.5°	741.3	748.8	763.0	770.8	772.3
45°	701.6	707.3	722.9	731.4	730.5
47.5°	659.1	665.4	680.8	688.9	690.4
50°	616.1	623.3	639.9	645.3	645.6
52.5°	570.9	580.3	595.3	602.5	600.1
55°	528.2	535.7	551.7	556.8	554.7
57.5°	484.3	492.7	507.4	510.1	510.4
60°	441.5	448.4	461.1	463.8	462.9
62.5°	394.6	401.5	412.9	415.6	413.5
65°	349.7	355.4	366.3	369.0	365.4
67.5°	305.2	310.9	319.3	323.5	319.6
70°	262.1	266.7	274.2	276.6	276.9
72.5°	216.4	224.5	229.9	229.6	228.7
75°	175.8	179.4	186.0	186.6	187.2
77.5°	136.9	137.8	144.8	146.6	145.4
80°	98.1	101.4	105.3	107.4	107.7
82.5°	64.7	67.1	70.4	74.0	74.0
85°	37.3	38.2	40.9	44.5	46.0
87.5°	15.0	16.6	19.3	22.0	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)