

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: P475596

Luminaire Tested: **24GR-LD5-30-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475596
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 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 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

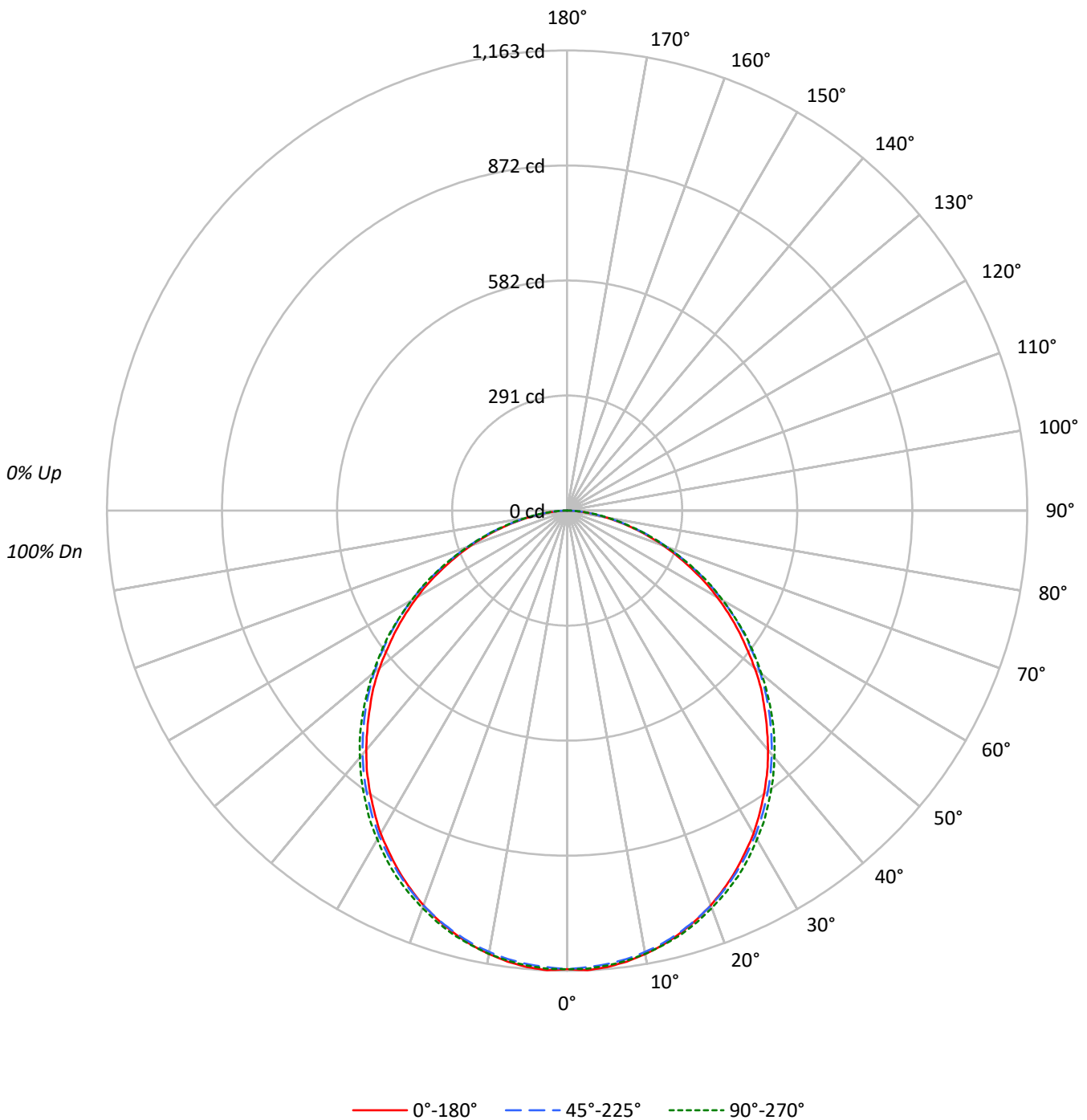
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1559	1559	1559
5°	1564	1554	1559
10°	1555	1548	1554
15°	1540	1536	1546
20°	1520	1520	1531
25°	1494	1500	1515
30°	1464	1475	1491
35°	1427	1446	1463
40°	1388	1413	1431
45°	1342	1374	1392
50°	1295	1333	1342
55°	1239	1283	1293
60°	1180	1220	1221
65°	1102	1145	1151
70°	1021	1050	1046
75°	907	940	943
80°	759	786	816
85°	570	613	634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.6
10°-20°	311.6	10.2
20°-30°	465.7	15.2
30°-40°	550.2	17.9
40°-50°	555.5	18.1
50°-60°	484.7	15.8
60°-70°	353.4	11.5
70°-80°	190.6	6.2
80°-90°	47.7	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°	886.8	28.9
0°-40°	1437.0	46.8
0°-60°	2477.2	80.7
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°	1159	1159	1159	1159	1159	
5°	1158	1154	1151	1152	1154	110
15°	1105	1103	1103	1106	1110	312
25°	1006	1006	1010	1016	1021	463
35°	869	871	880	889	891	543
45°	705	710	722	731	732	544
55°	528	535	547	549	551	472
65°	346	354	360	360	362	344
75°	174	176	181	182	181	185
85°	37	38	40	42	41	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.0	1159.0	1159.0	1159.0	1159.0
2.5°	1162.8	1158.6	1155.3	1156.0	1158.8
5°	1158.1	1153.9	1150.8	1151.9	1154.1
7.5°	1149.8	1145.9	1143.5	1144.5	1147.5
10°	1138.3	1135.2	1132.9	1134.5	1137.6
12.5°	1123.7	1120.5	1119.7	1121.9	1124.7
15°	1105.4	1103.1	1103.0	1105.6	1109.8
17.5°	1084.9	1082.6	1083.8	1087.3	1091.0
20°	1061.6	1059.5	1061.9	1066.6	1069.0
22.5°	1034.9	1033.2	1037.6	1042.4	1045.6
25°	1006.1	1006.2	1010.1	1016.5	1020.7
27.5°	974.1	975.3	981.0	987.3	991.5
30°	942.6	941.5	949.7	956.5	959.6
32.5°	906.0	906.6	916.1	923.1	927.8
35°	868.6	871.1	880.5	889.0	890.7
37.5°	830.9	832.6	843.9	852.3	854.5
40°	790.0	793.1	804.3	812.1	814.9
42.5°	747.4	751.4	763.4	771.6	775.2
45°	705.1	710.1	722.3	731.4	731.5
47.5°	664.2	667.9	679.7	687.7	686.8
50°	618.6	624.0	636.7	641.6	641.1
52.5°	572.0	580.2	591.8	595.7	595.2
55°	528.2	534.6	547.1	549.2	551.1
57.5°	482.8	488.3	501.9	502.8	502.4
60°	438.4	443.4	453.4	455.8	453.9
62.5°	393.7	398.7	407.6	410.0	409.7
65°	346.2	353.7	359.6	360.3	361.5
67.5°	302.0	306.7	312.4	313.5	312.6
70°	259.6	263.6	266.9	267.6	266.0
72.5°	215.7	219.4	224.1	224.9	223.2
75°	174.5	176.2	180.8	181.5	181.3
77.5°	134.5	135.9	139.2	141.8	142.1
80°	97.9	98.5	101.4	103.3	105.3
82.5°	64.9	66.3	68.5	70.5	72.2
85°	36.9	37.8	39.7	41.6	41.1
87.5°	14.3	16.2	16.4	18.3	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)