

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: P475611

Luminaire Tested: **24GR-LD5-30-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475611  
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-L840-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3127.2 lumens  
Efficiency: N/A  
Efficacy: 146.8 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

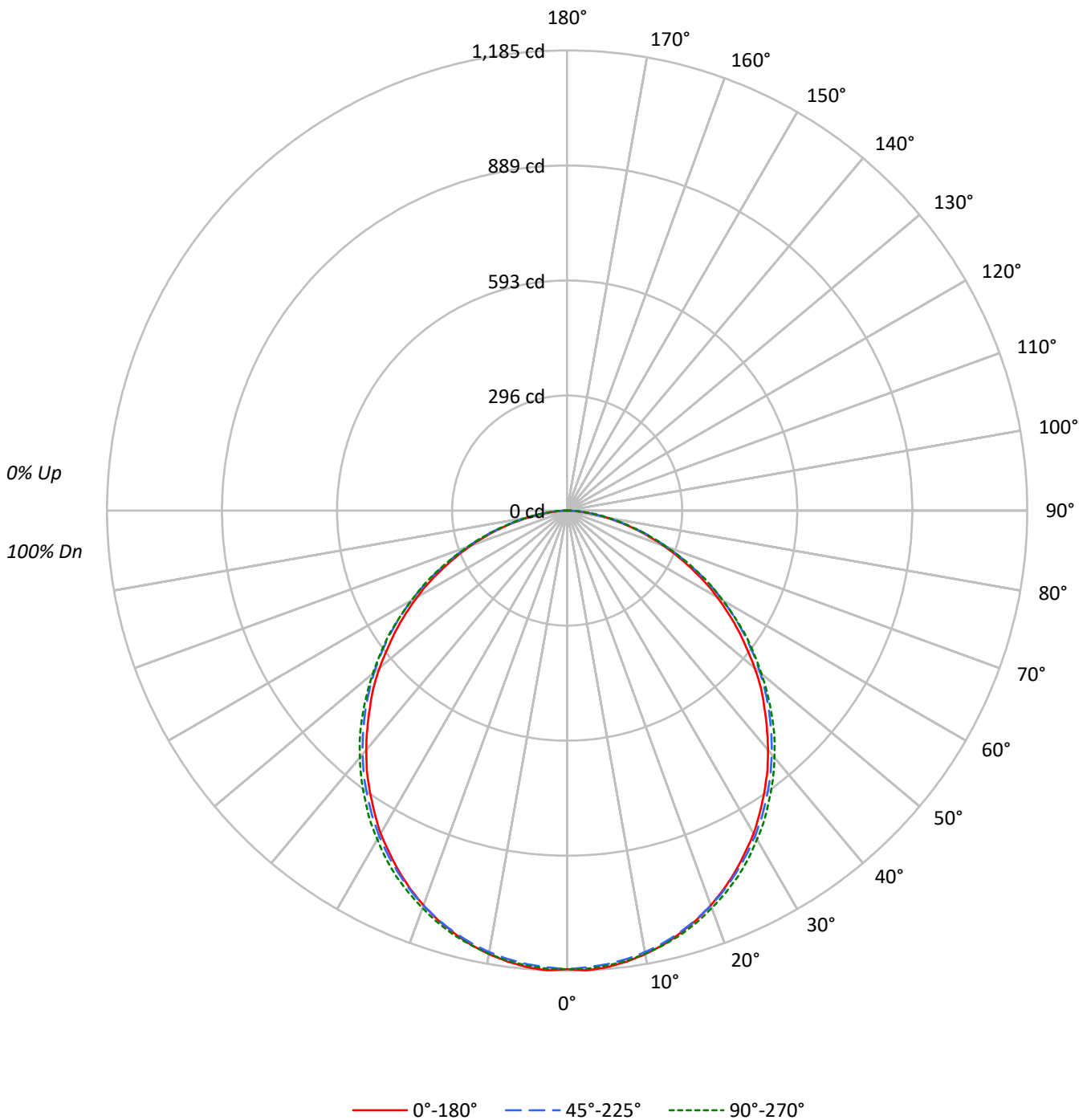
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1589	1589	1589
5°	1594	1584	1588
10°	1585	1577	1584
15°	1569	1566	1575
20°	1549	1549	1560
25°	1522	1528	1544
30°	1492	1503	1519
35°	1454	1474	1491
40°	1414	1439	1459
45°	1367	1400	1418
50°	1320	1358	1367
55°	1263	1308	1317
60°	1202	1243	1245
65°	1123	1167	1173
70°	1041	1070	1066
75°	924	958	960
80°	773	801	831
85°	580	624	645



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	3.6
10°-20°	317.5	10.2
20°-30°	474.6	15.2
30°-40°	560.7	17.9
40°-50°	566.0	18.1
50°-60°	494.0	15.8
60°-70°	360.1	11.5
70°-80°	194.2	6.2
80°-90°	48.6	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°	903.6	28.9
0°-40°	1464.3	46.8
0°-60°	2524.3	80.7
0°-90°	3127.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1180	1176	1173	1174	1176	112
15°	1126	1124	1124	1127	1131	318
25°	1025	1025	1029	1036	1040	472
35°	885	888	897	906	908	554
45°	718	724	736	745	745	555
55°	538	545	558	560	562	481
65°	353	360	366	367	368	351
75°	178	180	184	185	185	189
85°	38	38	40	42	42	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1184.9	1180.7	1177.3	1178.0	1180.8
5°	1180.1	1175.9	1172.7	1173.7	1176.0
7.5°	1171.6	1167.7	1165.2	1166.3	1169.3
10°	1159.9	1156.7	1154.4	1156.0	1159.2
12.5°	1145.0	1141.8	1140.9	1143.2	1146.1
15°	1126.4	1124.1	1123.9	1126.6	1130.8
17.5°	1105.5	1103.2	1104.4	1108.0	1111.7
20°	1081.7	1079.6	1082.1	1086.9	1089.4
22.5°	1054.6	1052.8	1057.3	1062.2	1065.4
25°	1025.2	1025.4	1029.3	1035.8	1040.1
27.5°	992.6	993.8	999.7	1006.0	1010.3
30°	960.5	959.4	967.7	974.7	977.8
32.5°	923.2	923.8	933.5	940.6	945.4
35°	885.1	887.6	897.2	905.9	907.6
37.5°	846.7	848.4	860.0	868.5	870.8
40°	805.0	808.2	819.5	827.5	830.4
42.5°	761.6	765.7	777.9	786.2	789.9
45°	718.5	723.6	736.0	745.3	745.4
47.5°	676.8	680.6	692.6	700.8	699.9
50°	630.4	635.9	648.8	653.8	653.3
52.5°	582.9	591.2	603.1	607.0	606.5
55°	538.2	544.8	557.5	559.7	561.6
57.5°	491.9	497.6	511.4	512.3	512.0
60°	446.7	451.9	462.0	464.5	462.5
62.5°	401.2	406.3	415.4	417.8	417.5
65°	352.8	360.4	366.4	367.1	368.4
67.5°	307.7	312.5	318.4	319.4	318.6
70°	264.5	268.6	271.9	272.6	271.1
72.5°	219.8	223.5	228.3	229.2	227.4
75°	177.8	179.6	184.2	184.9	184.7
77.5°	137.0	138.5	141.8	144.5	144.8
80°	99.8	100.3	103.4	105.3	107.3
82.5°	66.1	67.5	69.8	71.8	73.6
85°	37.6	38.5	40.4	42.4	41.8
87.5°	14.5	16.5	16.7	18.6	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)