

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: P475566

Luminaire Tested: **24GR-LD5-30-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475566
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130.3 lumens
Efficiency: N/A
Efficacy: 147.0 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

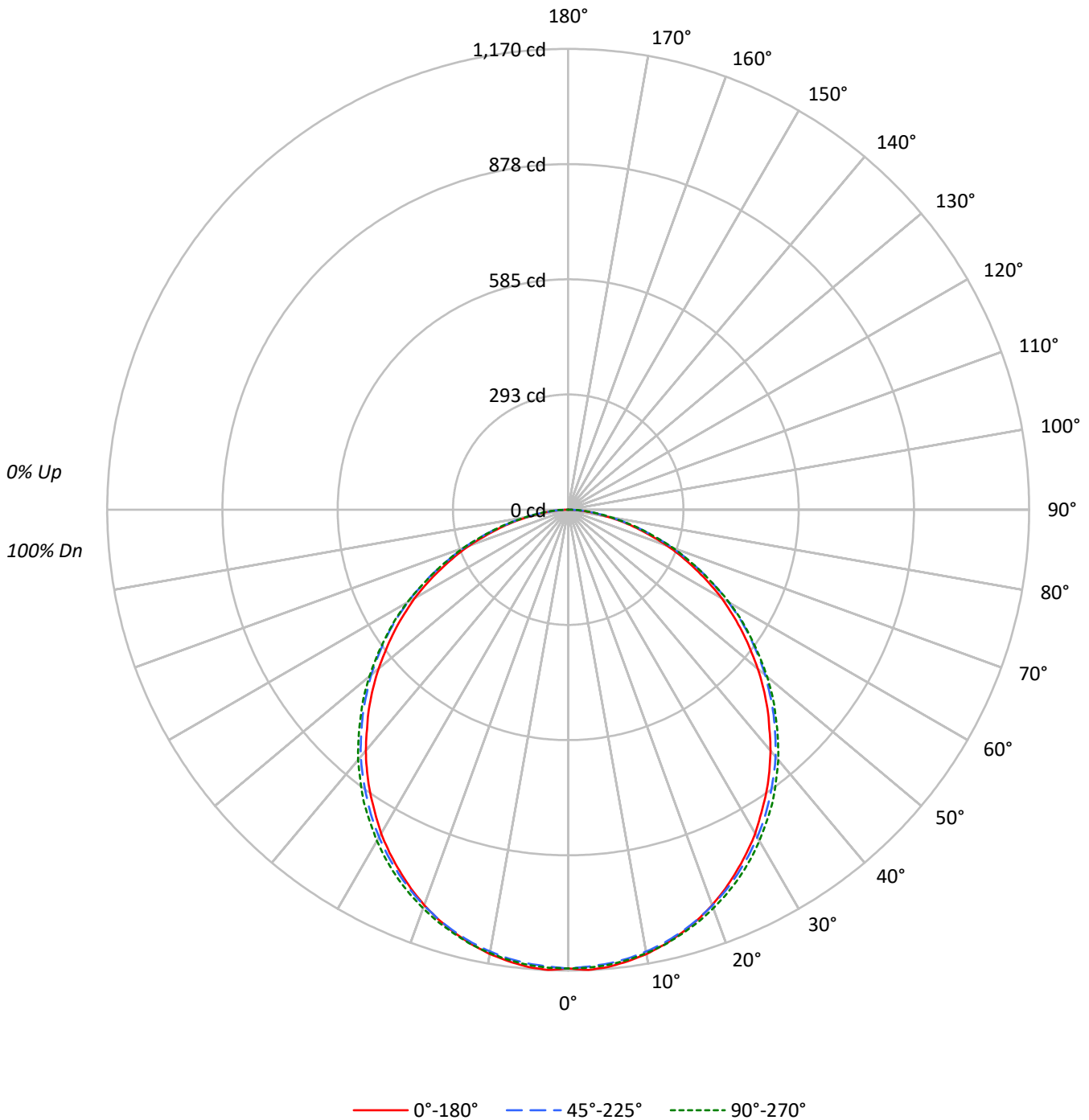
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1567	1567	1567
5°	1574	1563	1567
10°	1565	1556	1562
15°	1549	1546	1553
20°	1530	1531	1542
25°	1503	1513	1528
30°	1475	1491	1508
35°	1440	1464	1486
40°	1404	1439	1457
45°	1362	1403	1418
50°	1315	1366	1378
55°	1264	1320	1327
60°	1212	1266	1271
65°	1136	1189	1187
70°	1052	1100	1111
75°	932	986	992
80°	776	832	852
85°	588	645	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.5
10°-20°	313.4	10.0
20°-30°	469.6	15.0
30°-40°	557.1	17.8
40°-50°	565.8	18.1
50°-60°	498.3	15.9
60°-70°	366.1	11.7
70°-80°	199.1	6.4
80°-90°	50.7	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°	893.1	28.5
0°-40°	1450.2	46.3
0°-60°	2514.3	80.3
0°-90°	3130.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1165	1160	1157	1157	1160	111
15°	1112	1110	1110	1112	1115	314
25°	1012	1013	1019	1025	1029	466
35°	877	882	892	900	905	548
45°	716	721	737	746	745	552
55°	539	546	563	568	566	482
65°	357	363	374	376	373	354
75°	179	183	190	190	191	191
85°	38	39	42	45	47	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.7	1164.7	1164.7	1164.7	1164.7
2.5°	1169.6	1165.0	1161.0	1161.0	1163.8
5°	1165.3	1160.4	1157.0	1157.0	1160.1
7.5°	1156.4	1152.4	1149.7	1149.7	1153.1
10°	1145.4	1141.4	1139.2	1139.5	1143.2
12.5°	1130.6	1127.0	1126.0	1126.7	1131.3
15°	1112.2	1110.1	1110.1	1111.6	1115.0
17.5°	1091.7	1089.5	1091.0	1093.2	1097.5
20°	1068.3	1066.8	1069.6	1072.9	1076.9
22.5°	1041.6	1041.0	1045.6	1050.2	1054.2
25°	1012.1	1013.4	1018.9	1024.7	1029.3
27.5°	981.8	983.0	990.7	996.8	1001.4
30°	949.5	950.1	960.0	967.3	970.7
32.5°	912.1	917.0	927.4	934.5	937.5
35°	876.8	881.7	891.5	900.4	905.0
37.5°	838.4	842.7	855.6	865.1	866.6
40°	799.1	803.1	819.1	827.0	829.5
42.5°	756.1	763.8	778.2	786.2	787.7
45°	715.6	721.4	737.4	746.0	745.1
47.5°	672.3	678.8	694.4	702.7	704.2
50°	628.4	635.8	652.7	658.2	658.5
52.5°	582.4	591.9	607.2	614.6	612.1
55°	538.8	546.4	562.7	567.9	565.8
57.5°	493.9	502.5	517.6	520.3	520.7
60°	450.4	457.4	470.3	473.1	472.2
62.5°	402.5	409.5	421.2	424.0	421.8
65°	356.7	362.6	373.6	376.4	372.7
67.5°	311.3	317.1	325.7	330.0	326.0
70°	267.4	272.0	279.7	282.1	282.4
72.5°	220.7	229.0	234.5	234.2	233.3
75°	179.3	183.0	189.7	190.3	190.9
77.5°	139.7	140.6	147.7	149.5	148.3
80°	100.1	103.5	107.4	109.6	109.9
82.5°	66.0	68.5	71.8	75.5	75.5
85°	38.1	39.0	41.8	45.4	47.0
87.5°	15.3	16.9	19.6	22.4	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)