

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: P219024

Luminaire Tested: **24GR-LD5-30-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F1-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2477.9 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

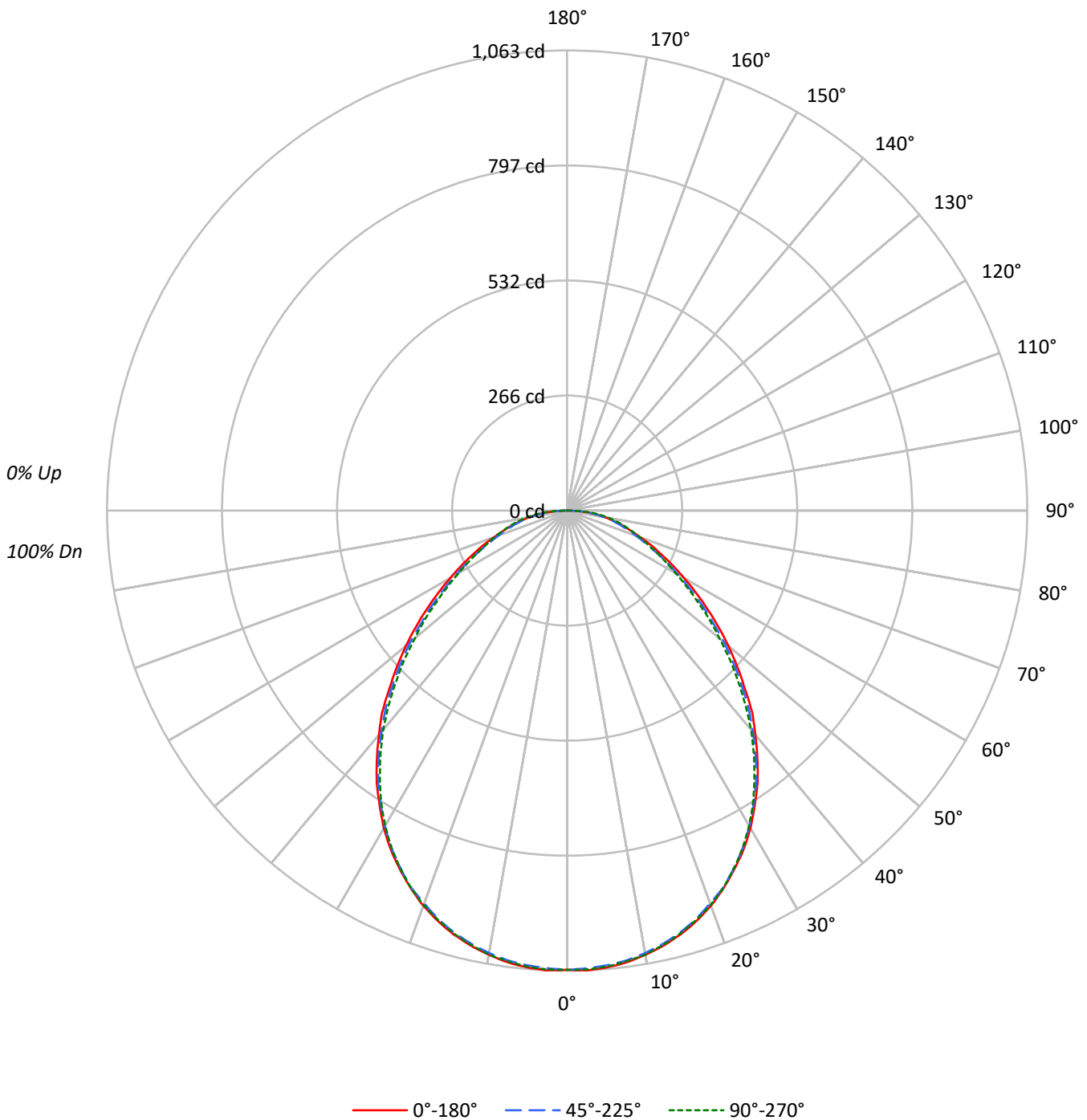
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1625	1625	1625
5°	1629	1621	1626
10°	1621	1614	1620
15°	1607	1600	1604
20°	1583	1574	1580
25°	1545	1540	1541
30°	1498	1489	1486
35°	1434	1423	1410
40°	1352	1335	1321
45°	1256	1234	1211
50°	1158	1128	1094
55°	1053	1016	985
60°	954	904	887
65°	872	814	820
70°	802	756	792
75°	780	740	807
80°	781	761	859
85°	859	812	947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	4.0
10°-20°	284.5	11.5
20°-30°	419.2	16.9
30°-40°	474.1	19.1
40°-50°	439.7	17.7
50°-60°	341.6	13.8
60°-70°	229.1	9.2
70°-80°	137.3	5.5
80°-90°	52.2	2.1
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°	803.9	32.4
0°-40°	1278.0	51.6
0°-60°	2059.3	83.1
0°-90°	2477.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1059	1056	1054	1054	1058	101
15°	1014	1009	1009	1007	1011	286
25°	914	913	911	910	912	421
35°	767	764	761	756	754	478
45°	580	578	570	561	559	448
55°	394	390	380	371	369	354
65°	241	233	225	224	226	240
75°	132	127	125	131	136	139
85°	49	46	46	54	54	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1063.2	1059.8	1058.3	1057.5	1060.9
5°	1059.4	1056.4	1054.4	1053.7	1057.5
7.5°	1052.6	1049.1	1048.0	1046.4	1050.3
10°	1042.2	1039.2	1037.6	1036.5	1041.5
12.5°	1029.3	1026.6	1025.0	1024.3	1027.3
15°	1013.6	1009.3	1009.0	1007.0	1011.3
17.5°	994.1	990.2	989.5	988.8	991.4
20°	971.5	967.8	965.8	965.5	969.6
22.5°	944.4	941.8	942.5	940.2	943.2
25°	914.2	913.1	911.2	909.6	911.9
27.5°	882.9	879.1	879.1	876.0	878.3
30°	847.0	844.4	842.1	838.9	840.5
32.5°	806.5	805.3	802.0	798.8	799.7
35°	767.2	764.1	761.0	756.4	754.2
37.5°	722.1	719.0	715.2	708.7	707.9
40°	676.3	673.5	667.5	660.6	660.9
42.5°	632.7	628.4	620.8	611.6	609.8
45°	580.0	577.7	569.7	560.9	558.9
47.5°	532.9	531.4	521.5	512.3	510.0
50°	485.9	481.7	473.4	464.2	459.2
52.5°	439.8	434.4	423.7	417.5	415.2
55°	394.3	389.7	380.5	371.0	368.7
57.5°	351.9	346.9	335.8	329.0	327.8
60°	311.4	306.8	295.0	290.0	289.6
62.5°	275.4	267.8	259.8	256.3	256.7
65°	240.7	233.0	224.7	223.9	226.2
67.5°	210.2	202.1	193.7	196.7	199.0
70°	179.2	173.4	168.8	173.8	176.9
72.5°	152.8	149.4	145.1	152.0	155.9
75°	131.8	127.2	125.0	131.0	136.4
77.5°	109.3	105.5	105.5	111.9	117.7
80°	88.6	85.9	86.3	94.0	97.4
82.5°	69.5	65.7	66.1	75.7	77.9
85°	48.9	45.8	46.2	54.3	53.9
87.5°	25.6	24.4	25.6	31.3	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)