

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: P219099

Luminaire Tested: **24GR-LD5-30-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2643.5 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

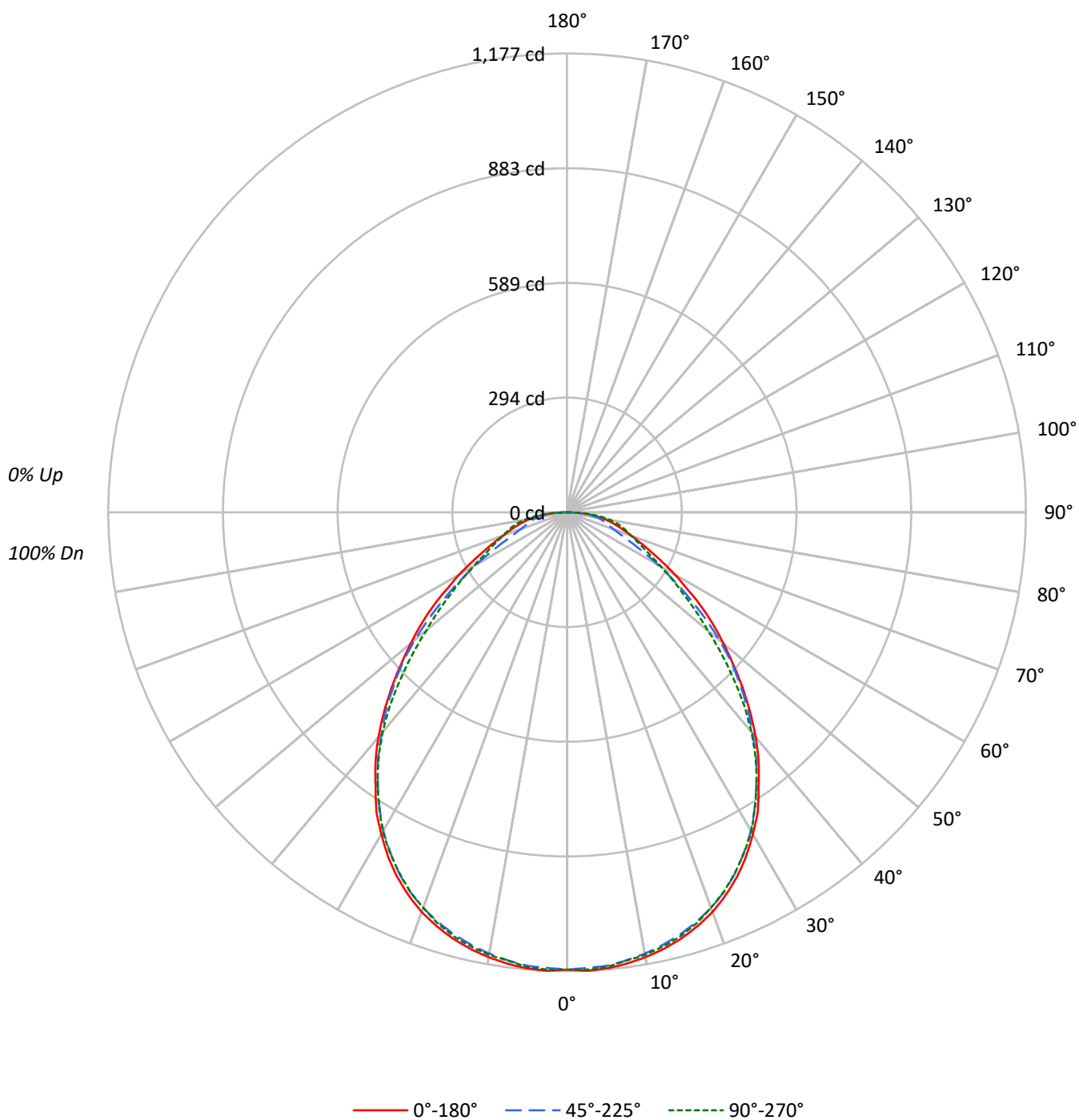
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1796	1796	1796
5°	1805	1795	1799
10°	1802	1787	1792
15°	1795	1777	1785
20°	1778	1760	1759
25°	1743	1725	1723
30°	1686	1668	1672
35°	1601	1583	1585
40°	1506	1480	1471
45°	1380	1361	1307
50°	1248	1213	1122
55°	1120	1020	967
60°	981	821	851
65°	855	645	783
70°	783	563	783
75°	783	599	863
80°	850	707	983
85°	933	796	1054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	4.2
10°-20°	317.0	12.0
20°-30°	470.0	17.8
30°-40°	530.2	20.1
40°-50°	480.2	18.2
50°-60°	346.4	13.1
60°-70°	206.9	7.8
70°-80°	127.9	4.8
80°-90°	53.9	2.0
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°	898.0	34.0
0°-40°	1428.3	54.0
0°-60°	2254.9	85.3
0°-90°	2643.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2643.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1174	1172	1168	1166	1170	112
15°	1132	1125	1121	1121	1126	319
25°	1032	1026	1021	1017	1020	474
35°	856	855	847	847	848	536
45°	637	633	628	613	604	491
55°	419	406	382	363	362	374
65°	236	208	178	202	216	237
75°	132	115	101	126	146	141
85°	53	47	45	59	60	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.9	1172.9	1172.9	1172.9	1172.9
2.5°	1177.0	1173.7	1169.6	1172.1	1174.1
5°	1174.1	1172.5	1167.6	1166.4	1170.4
7.5°	1168.0	1163.9	1159.4	1161.4	1159.8
10°	1158.6	1154.9	1149.2	1149.6	1152.5
12.5°	1147.2	1142.7	1136.5	1138.1	1140.6
15°	1132.0	1125.1	1120.6	1121.1	1125.6
17.5°	1112.9	1107.6	1101.9	1103.0	1105.1
20°	1090.8	1088.0	1079.8	1077.4	1079.4
22.5°	1063.0	1057.7	1053.2	1052.0	1052.5
25°	1031.6	1025.9	1020.6	1016.9	1019.7
27.5°	994.8	989.9	983.0	981.8	984.2
30°	953.2	949.5	943.4	941.7	945.5
32.5°	910.7	904.6	896.0	896.0	896.8
35°	856.4	855.2	846.6	847.0	847.8
37.5°	807.4	801.6	796.8	791.9	794.3
40°	753.1	746.6	740.0	736.8	735.5
42.5°	694.7	689.8	686.9	675.1	672.2
45°	637.1	633.0	628.5	613.0	603.6
47.5°	578.3	577.5	573.8	546.5	537.0
50°	523.6	522.3	509.2	480.2	470.9
52.5°	471.7	463.5	446.3	417.8	416.2
55°	419.4	406.4	381.8	363.0	362.3
57.5°	364.3	348.8	323.8	313.6	318.9
60°	320.2	296.5	267.9	269.1	277.7
62.5°	274.5	247.9	219.7	232.0	242.2
65°	236.0	207.9	178.1	202.1	216.1
67.5°	202.6	176.5	147.8	180.1	193.5
70°	174.8	153.6	125.8	159.7	174.8
72.5°	152.7	133.1	111.5	143.3	160.9
75°	132.3	114.8	101.3	126.2	145.8
77.5°	114.8	97.6	91.5	111.5	130.6
80°	96.4	80.8	80.1	97.2	111.5
82.5°	75.1	64.5	64.5	81.3	89.8
85°	53.1	46.6	45.3	59.2	60.0
87.5°	27.4	26.1	23.7	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)