

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: P219249

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219249
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-A19/156-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2768.8 lumens
Efficiency: N/A
Efficacy: 118.2 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

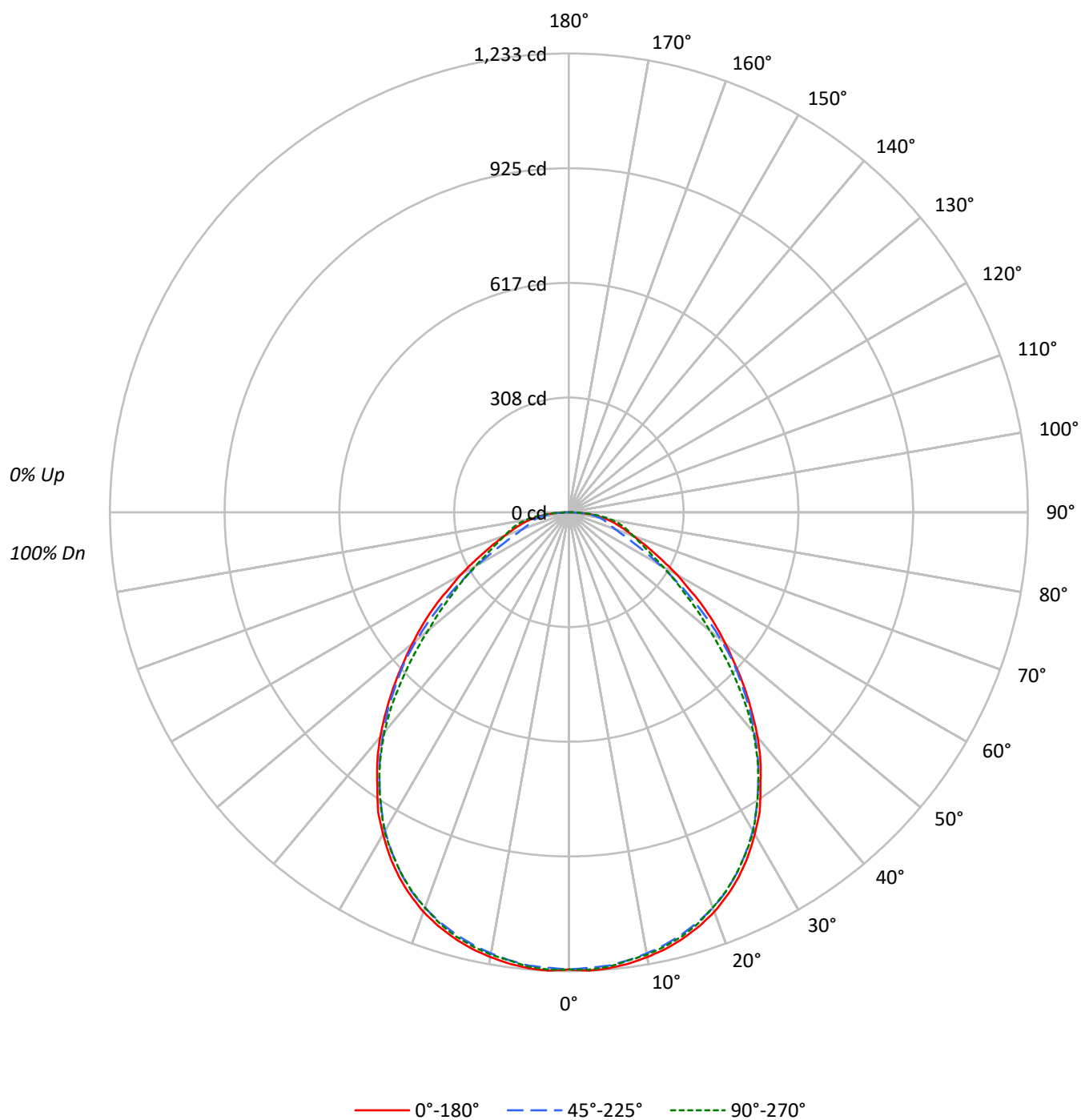
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1881	1881	1881
5°	1891	1880	1885
10°	1887	1872	1877
15°	1880	1861	1869
20°	1862	1843	1843
25°	1826	1806	1805
30°	1766	1748	1751
35°	1677	1658	1660
40°	1577	1550	1540
45°	1445	1426	1369
50°	1307	1271	1175
55°	1173	1068	1013
60°	1027	860	891
65°	896	676	820
70°	820	590	820
75°	820	628	904
80°	890	739	1030
85°	977	835	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	4.2
10°-20°	332.0	12.0
20°-30°	492.3	17.8
30°-40°	555.3	20.1
40°-50°	503.0	18.2
50°-60°	362.9	13.1
60°-70°	216.7	7.8
70°-80°	133.9	4.8
80°-90°	56.4	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°	940.6	34.0
0°-40°	1495.9	54.0
0°-60°	2361.8	85.3
0°-90°	2768.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1230	1228	1223	1222	1226	117
15°	1186	1178	1174	1174	1179	334
25°	1080	1074	1069	1065	1068	496
35°	897	896	887	887	888	561
45°	667	663	658	642	632	514
55°	439	426	400	380	379	392
65°	247	218	186	212	226	249
75°	139	120	106	132	153	148
85°	56	49	48	62	63	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1232.7	1229.3	1225.0	1227.6	1229.8
5°	1229.8	1228.0	1222.9	1221.6	1225.9
7.5°	1223.3	1219.0	1214.3	1216.5	1214.8
10°	1213.5	1209.7	1203.7	1204.1	1207.0
12.5°	1201.5	1196.8	1190.4	1192.1	1194.6
15°	1185.6	1178.4	1173.7	1174.1	1178.8
17.5°	1165.5	1160.0	1154.1	1155.3	1157.4
20°	1142.5	1139.5	1130.9	1128.4	1130.5
22.5°	1113.4	1107.8	1103.1	1101.8	1102.3
25°	1080.4	1074.4	1068.9	1065.1	1068.1
27.5°	1042.0	1036.9	1029.6	1028.3	1030.8
30°	998.4	994.4	988.1	986.3	990.2
32.5°	953.9	947.4	938.5	938.5	939.3
35°	897.0	895.7	886.7	887.2	888.0
37.5°	845.7	839.7	834.5	829.4	831.9
40°	788.7	781.9	775.0	771.6	770.3
42.5°	727.5	722.4	719.4	707.1	704.1
45°	667.3	663.0	658.3	642.0	632.2
47.5°	605.7	604.8	601.0	572.3	562.5
50°	548.4	547.1	533.4	503.0	493.2
52.5°	494.0	485.5	467.5	437.5	435.9
55°	439.3	425.6	399.9	380.3	379.4
57.5°	381.6	365.3	339.2	328.5	334.1
60°	335.3	310.5	280.6	281.9	290.8
62.5°	287.5	259.6	230.1	243.0	253.6
65°	247.2	217.7	186.5	211.8	226.2
67.5°	212.1	184.8	154.9	188.6	202.7
70°	183.1	160.8	131.8	167.3	183.1
72.5°	160.0	139.4	116.8	150.2	168.5
75°	138.6	120.2	106.1	132.1	152.7
77.5°	120.2	102.2	95.8	116.8	136.9
80°	100.9	84.7	83.8	101.8	116.8
82.5°	78.7	67.6	67.6	85.1	94.1
85°	55.6	48.8	47.5	62.1	62.9
87.5°	28.7	27.4	24.8	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)