

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: P219219

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219219
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.1 lumens
Efficiency: N/A
Efficacy: 108.5 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

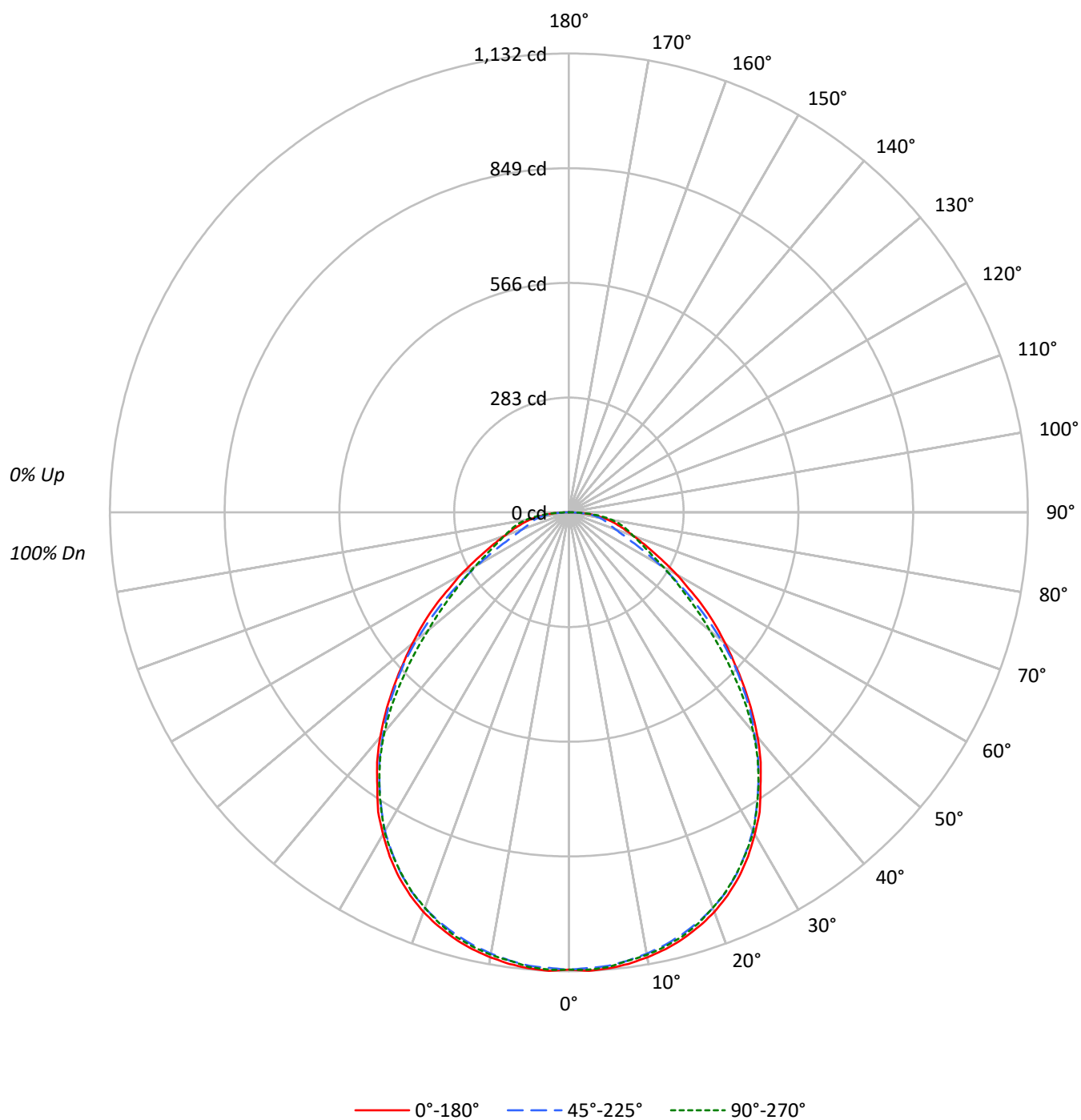
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1728	1728	1728
5°	1737	1727	1731
10°	1733	1719	1724
15°	1727	1709	1717
20°	1710	1693	1693
25°	1677	1659	1658
30°	1622	1605	1609
35°	1540	1523	1525
40°	1449	1423	1415
45°	1327	1310	1258
50°	1200	1167	1079
55°	1077	981	931
60°	943	789	819
65°	823	621	753
70°	753	542	753
75°	753	576	830
80°	818	679	946
85°	898	766	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	4.2
10°-20°	304.9	12.0
20°-30°	452.1	17.8
30°-40°	510.1	20.1
40°-50°	462.0	18.2
50°-60°	333.3	13.1
60°-70°	199.0	7.8
70°-80°	123.0	4.8
80°-90°	51.8	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°	863.9	34.0
0°-40°	1374.0	54.0
0°-60°	2169.2	85.3
0°-90°	2543.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1130	1128	1123	1122	1126	107
15°	1089	1082	1078	1078	1083	307
25°	992	987	982	978	981	456
35°	824	823	814	815	816	515
45°	613	609	605	590	581	472
55°	404	391	367	349	348	360
65°	227	200	171	194	208	228
75°	127	110	97	121	140	136
85°	51	45	44	57	58	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.3	1128.3	1128.3	1128.3	1128.3
2.5°	1132.3	1129.1	1125.1	1127.5	1129.5
5°	1129.5	1128.0	1123.2	1122.0	1126.0
7.5°	1123.6	1119.7	1115.4	1117.3	1115.8
10°	1114.6	1111.0	1105.5	1105.9	1108.7
12.5°	1103.6	1099.2	1093.4	1095.0	1097.3
15°	1089.0	1082.4	1078.1	1078.4	1082.7
17.5°	1070.6	1065.5	1060.0	1061.1	1063.1
20°	1049.3	1046.6	1038.8	1036.4	1038.4
22.5°	1022.6	1017.5	1013.2	1012.0	1012.4
25°	992.4	986.9	981.8	978.3	981.0
27.5°	957.0	952.3	945.6	944.4	946.8
30°	917.0	913.4	907.5	905.9	909.5
32.5°	876.1	870.2	862.0	862.0	862.8
35°	823.8	822.7	814.4	814.8	815.6
37.5°	776.7	771.2	766.5	761.8	764.2
40°	724.5	718.2	711.9	708.7	707.5
42.5°	668.3	663.6	660.8	649.4	646.7
45°	612.8	608.9	604.6	589.7	580.6
47.5°	556.3	555.6	552.0	525.6	516.6
50°	503.6	502.5	489.9	462.0	453.0
52.5°	453.7	445.9	429.4	401.9	400.3
55°	403.5	390.9	367.4	349.3	348.5
57.5°	350.5	335.5	311.5	301.8	306.8
60°	308.0	285.3	257.7	258.9	267.2
62.5°	264.0	238.5	211.4	223.1	233.0
65°	227.1	200.0	171.3	194.5	207.8
67.5°	194.9	169.7	142.2	173.2	186.2
70°	168.1	147.7	121.0	153.6	168.1
72.5°	147.0	128.1	107.3	137.9	154.8
75°	127.3	110.4	97.4	121.4	140.2
77.5°	110.4	93.9	88.0	107.3	125.7
80°	92.7	77.8	77.0	93.5	107.3
82.5°	72.2	62.0	62.0	78.2	86.4
85°	51.1	44.8	43.6	57.0	57.7
87.5°	26.4	25.2	22.8	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)