

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: P219235

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219235
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-LD5-34-A19/156-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944.3 lumens
Efficiency: N/A
Efficacy: 110.0 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

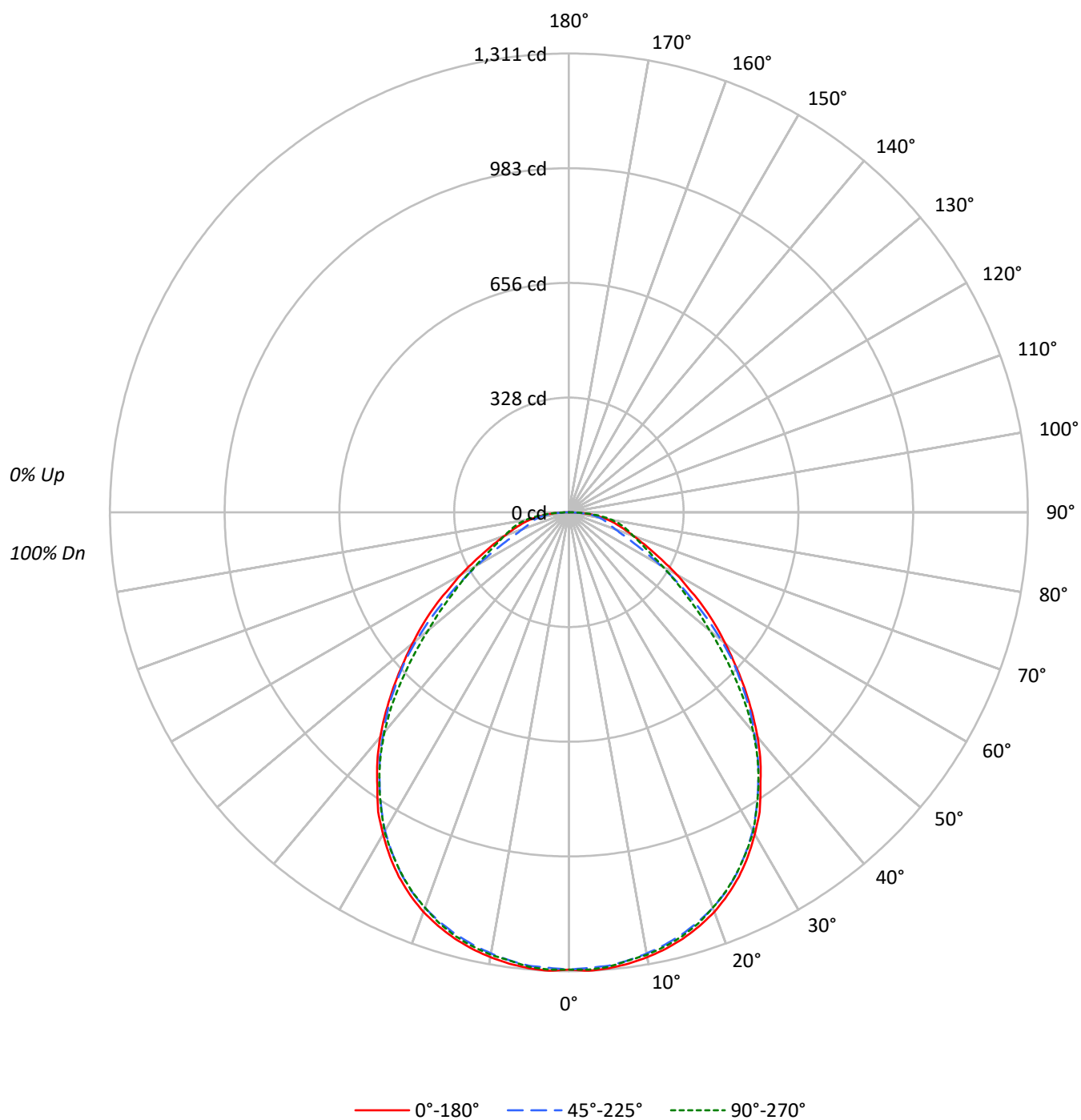
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2001	2001	2001
5°	2011	1999	2004
10°	2007	1991	1996
15°	1999	1979	1988
20°	1980	1960	1959
25°	1942	1921	1919
30°	1878	1858	1862
35°	1783	1763	1766
40°	1677	1648	1638
45°	1537	1516	1456
50°	1390	1352	1250
55°	1248	1136	1077
60°	1092	914	947
65°	953	719	872
70°	872	627	872
75°	872	668	961
80°	946	787	1095
85°	1040	887	1174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	4.2
10°-20°	353.0	12.0
20°-30°	523.5	17.8
30°-40°	590.5	20.1
40°-50°	534.9	18.2
50°-60°	385.9	13.1
60°-70°	230.4	7.8
70°-80°	142.4	4.8
80°-90°	60.0	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°	1000.2	34.0
0°-40°	1590.8	54.0
0°-60°	2511.5	85.3
0°-90°	2944.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1308	1306	1300	1299	1304	124
15°	1261	1253	1248	1248	1254	355
25°	1149	1143	1137	1133	1136	528
35°	954	952	943	943	944	597
45°	710	705	700	683	672	547
55°	467	453	425	404	403	417
65°	263	232	198	225	241	264
75°	147	128	113	140	162	157
85°	59	52	50	66	67	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1306.3	1306.3	1306.3	1306.3	1306.3
2.5°	1310.9	1307.3	1302.7	1305.5	1307.7
5°	1307.7	1305.9	1300.4	1299.1	1303.6
7.5°	1300.9	1296.4	1291.4	1293.6	1291.8
10°	1290.4	1286.3	1279.9	1280.5	1283.6
12.5°	1277.7	1272.7	1265.8	1267.7	1270.4
15°	1260.8	1253.1	1248.1	1248.5	1253.6
17.5°	1239.5	1233.6	1227.2	1228.6	1230.8
20°	1214.9	1211.7	1202.6	1200.0	1202.2
22.5°	1184.0	1178.1	1173.0	1171.8	1172.2
25°	1149.0	1142.6	1136.7	1132.6	1135.8
27.5°	1108.0	1102.6	1094.9	1093.5	1096.2
30°	1061.7	1057.5	1050.7	1048.9	1053.0
32.5°	1014.4	1007.5	997.9	997.9	998.9
35°	953.8	952.4	942.9	943.3	944.3
37.5°	899.2	892.9	887.4	881.9	884.7
40°	838.8	831.4	824.2	820.5	819.2
42.5°	773.7	768.2	765.1	751.9	748.7
45°	709.6	705.0	700.0	682.8	672.3
47.5°	644.1	643.2	639.1	608.6	598.1
50°	583.2	581.8	567.2	534.9	524.4
52.5°	525.4	516.3	497.2	465.3	463.5
55°	467.2	452.6	425.3	404.4	403.4
57.5°	405.7	388.5	360.7	349.3	355.3
60°	356.6	330.2	298.4	299.7	309.3
62.5°	305.6	276.1	244.8	258.3	269.7
65°	262.9	231.5	198.3	225.1	240.6
67.5°	225.6	196.5	164.7	200.6	215.6
70°	194.7	171.1	140.1	177.8	194.7
72.5°	170.1	148.3	124.2	159.6	179.2
75°	147.4	127.8	112.8	140.5	162.4
77.5°	127.8	108.7	101.9	124.2	145.5
80°	107.3	90.0	89.2	108.3	124.2
82.5°	83.7	71.9	71.9	90.6	100.1
85°	59.2	51.9	50.5	66.0	66.8
87.5°	30.4	29.1	26.4	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)