

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: P219145

Luminaire Tested: **24GR-LD5-34-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219145
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-A125-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2793.6 lumens
Efficiency: N/A
Efficacy: 104.4 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

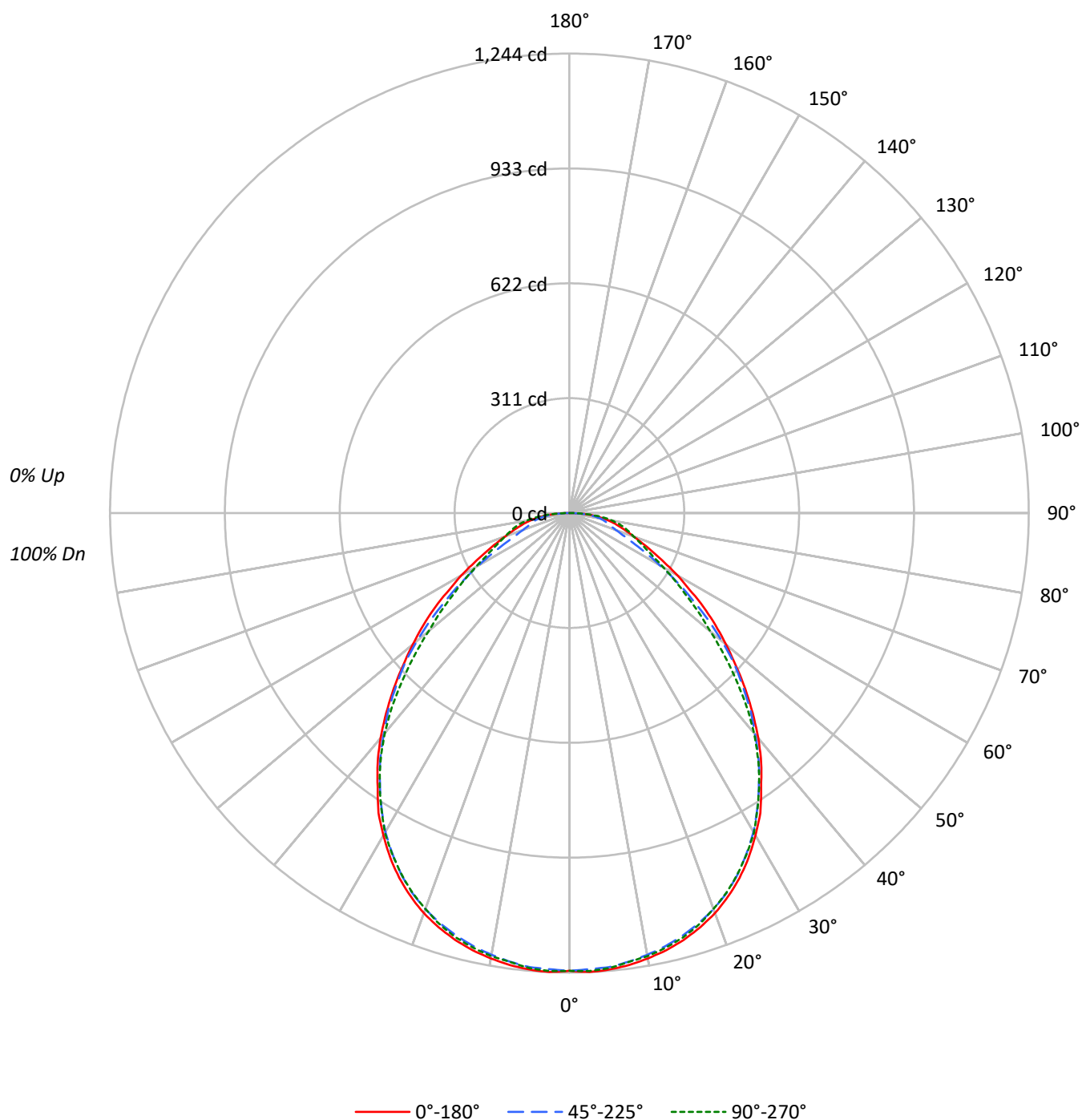
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1898	1898	1898
5°	1908	1897	1902
10°	1904	1889	1894
15°	1897	1878	1886
20°	1879	1860	1859
25°	1842	1823	1821
30°	1781	1763	1767
35°	1692	1673	1675
40°	1591	1564	1554
45°	1458	1439	1382
50°	1318	1282	1186
55°	1183	1077	1022
60°	1036	867	899
65°	904	682	827
70°	827	595	827
75°	827	633	912
80°	898	746	1039
85°	986	842	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.2
10°-20°	335.0	12.0
20°-30°	496.7	17.8
30°-40°	560.3	20.1
40°-50°	507.5	18.2
50°-60°	366.1	13.1
60°-70°	218.6	7.8
70°-80°	135.1	4.8
80°-90°	56.9	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°	949.0	34.0
0°-40°	1509.3	54.0
0°-60°	2382.9	85.3
0°-90°	2793.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1241	1239	1234	1232	1237	118
15°	1196	1189	1184	1185	1189	337
25°	1090	1084	1078	1075	1078	501
35°	905	904	895	895	896	566
45°	673	669	664	648	638	519
55°	443	429	404	384	383	396
65°	249	220	188	214	228	251
75°	140	121	107	133	154	149
85°	56	49	48	63	64	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1243.8	1240.3	1236.0	1238.6	1240.7
5°	1240.7	1239.0	1233.9	1232.5	1236.9
7.5°	1234.3	1230.0	1225.2	1227.4	1225.7
10°	1224.3	1220.5	1214.4	1214.8	1217.9
12.5°	1212.3	1207.5	1201.1	1202.8	1205.4
15°	1196.3	1189.0	1184.2	1184.7	1189.4
17.5°	1176.0	1170.4	1164.4	1165.6	1167.8
20°	1152.7	1149.7	1141.0	1138.5	1140.6
22.5°	1123.4	1117.7	1113.0	1111.8	1112.2
25°	1090.1	1084.1	1078.5	1074.6	1077.6
27.5°	1051.3	1046.2	1038.8	1037.5	1040.1
30°	1007.3	1003.4	997.0	995.2	999.1
32.5°	962.4	956.0	946.9	946.9	947.8
35°	905.0	903.7	894.6	895.0	895.9
37.5°	853.2	847.1	842.0	836.8	839.4
40°	795.8	788.9	782.0	778.5	777.3
42.5°	734.1	728.9	725.9	713.4	710.4
45°	673.2	669.0	664.2	647.8	637.9
47.5°	611.1	610.2	606.4	577.4	567.5
50°	553.3	551.9	538.2	507.5	497.6
52.5°	498.5	489.9	471.7	441.5	439.8
55°	443.2	429.4	403.5	383.7	382.8
57.5°	385.0	368.6	342.3	331.4	337.0
60°	338.3	313.3	283.1	284.4	293.5
62.5°	290.0	262.0	232.1	245.1	255.9
65°	249.4	219.7	188.2	213.6	228.3
67.5°	214.0	186.5	156.2	190.3	204.6
70°	184.7	162.3	132.9	168.8	184.7
72.5°	161.4	140.7	117.8	151.5	170.1
75°	139.8	121.3	107.0	133.3	154.1
77.5°	121.3	103.2	96.7	117.8	138.1
80°	101.8	85.4	84.6	102.7	117.8
82.5°	79.4	68.2	68.2	85.9	95.0
85°	56.1	49.2	47.9	62.6	63.5
87.5°	28.9	27.6	25.0	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)