

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: P219190

Luminaire Tested: **24GR-LD5-34-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219190
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-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3207.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

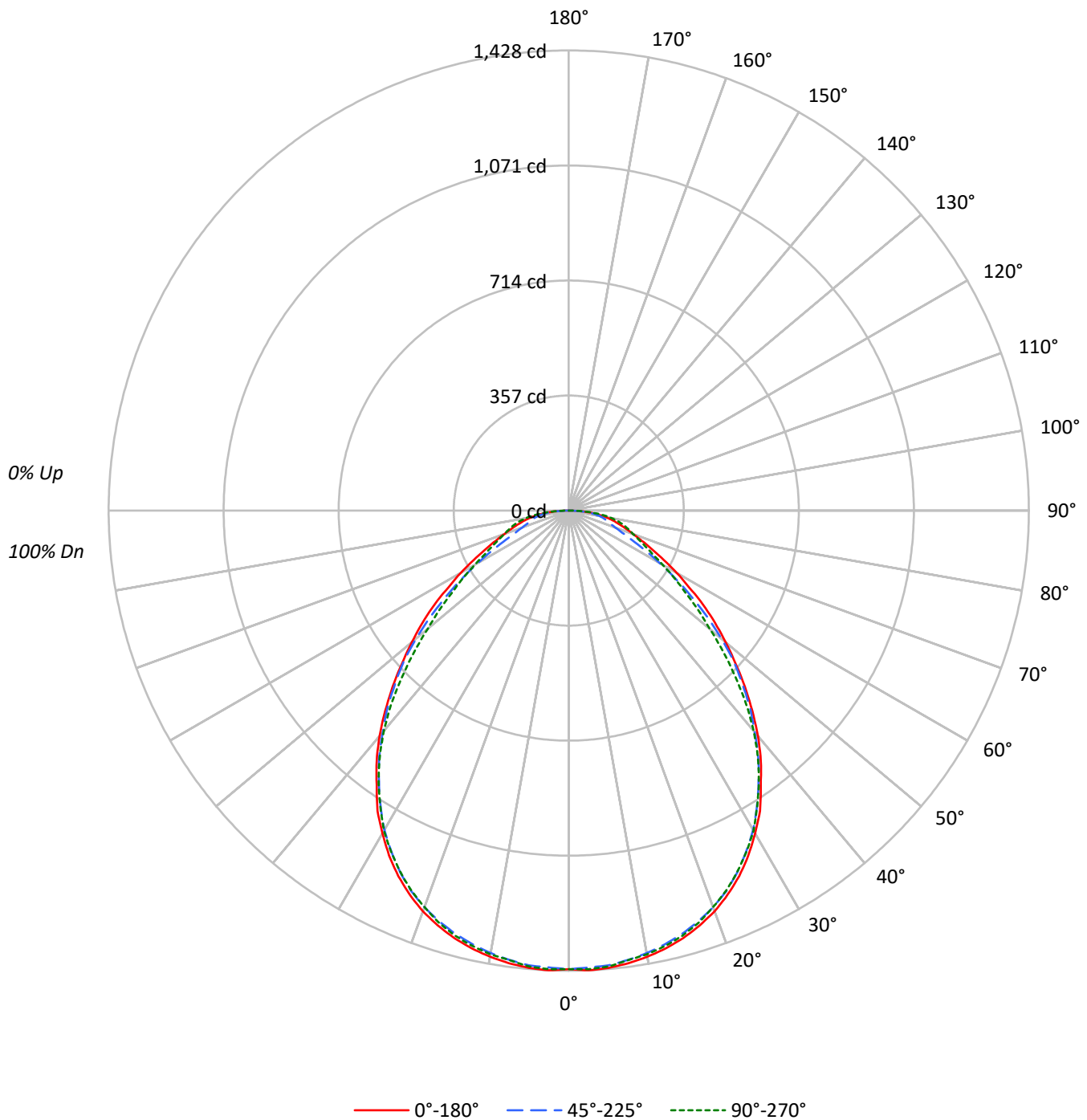
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2180	2180	2180
5°	2190	2178	2183
10°	2186	2168	2174
15°	2178	2156	2165
20°	2157	2135	2134
25°	2115	2092	2091
30°	2045	2024	2029
35°	1943	1920	1923
40°	1827	1795	1784
45°	1674	1652	1586
50°	1514	1472	1361
55°	1359	1237	1173
60°	1190	996	1032
65°	1038	783	950
70°	949	683	949
75°	950	727	1047
80°	1031	856	1193
85°	1132	967	1279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	4.2
10°-20°	384.5	12.0
20°-30°	570.2	17.8
30°-40°	643.3	20.1
40°-50°	582.6	18.2
50°-60°	420.3	13.1
60°-70°	251.0	7.8
70°-80°	155.1	4.8
80°-90°	65.4	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°	1089.5	34.0
0°-40°	1732.7	54.0
0°-60°	2735.6	85.3
0°-90°	3207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1424	1422	1416	1415	1420	135
15°	1373	1365	1360	1360	1366	387
25°	1252	1245	1238	1234	1237	575
35°	1039	1038	1027	1028	1029	650
45°	773	768	762	744	732	596
55°	509	493	463	440	439	454
65°	286	252	216	245	262	288
75°	160	139	123	153	177	171
85°	64	56	55	72	73	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1427.9	1423.9	1419.0	1422.0	1424.4
5°	1424.4	1422.4	1416.5	1415.0	1420.0
7.5°	1417.0	1412.0	1406.6	1409.0	1407.0
10°	1405.6	1401.1	1394.2	1394.7	1398.1
12.5°	1391.8	1386.3	1378.8	1380.8	1383.7
15°	1373.4	1365.0	1359.5	1360.0	1365.5
17.5°	1350.1	1343.6	1336.7	1338.2	1340.7
20°	1323.3	1319.9	1309.9	1307.0	1309.5
22.5°	1289.7	1283.2	1277.7	1276.3	1276.7
25°	1251.5	1244.6	1238.1	1233.7	1237.1
27.5°	1206.9	1200.9	1192.6	1191.1	1194.0
30°	1156.3	1151.9	1144.5	1142.5	1147.0
32.5°	1104.8	1097.5	1087.0	1087.0	1088.0
35°	1038.9	1037.5	1027.0	1027.6	1028.6
37.5°	979.5	972.6	966.6	960.7	963.7
40°	913.6	905.7	897.7	893.8	892.3
42.5°	842.8	836.8	833.4	819.0	815.5
45°	772.9	767.9	762.5	743.7	732.3
47.5°	701.5	700.6	696.2	662.9	651.6
50°	635.2	633.7	617.8	582.7	571.2
52.5°	572.2	562.3	541.5	506.9	504.9
55°	508.8	492.9	463.3	440.4	439.4
57.5°	441.9	423.2	392.8	380.5	386.9
60°	388.4	359.7	325.1	326.5	336.9
62.5°	333.0	300.8	266.5	281.4	293.8
65°	286.4	252.2	216.0	245.2	262.1
67.5°	245.7	214.0	179.4	218.5	234.9
70°	212.0	186.3	152.6	193.7	212.0
72.5°	185.3	161.5	135.2	173.9	195.2
75°	160.5	139.2	122.8	153.1	176.9
77.5°	139.2	118.4	111.0	135.2	158.5
80°	116.9	98.1	97.1	117.9	135.2
82.5°	91.2	78.3	78.3	98.6	109.0
85°	64.4	56.5	55.0	71.8	72.8
87.5°	33.2	31.7	28.8	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)