

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: P219174

Luminaire Tested: **24GR-LD5-30-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219174
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-A125-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.5 lumens
Efficiency: N/A
Efficacy: 114.9 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

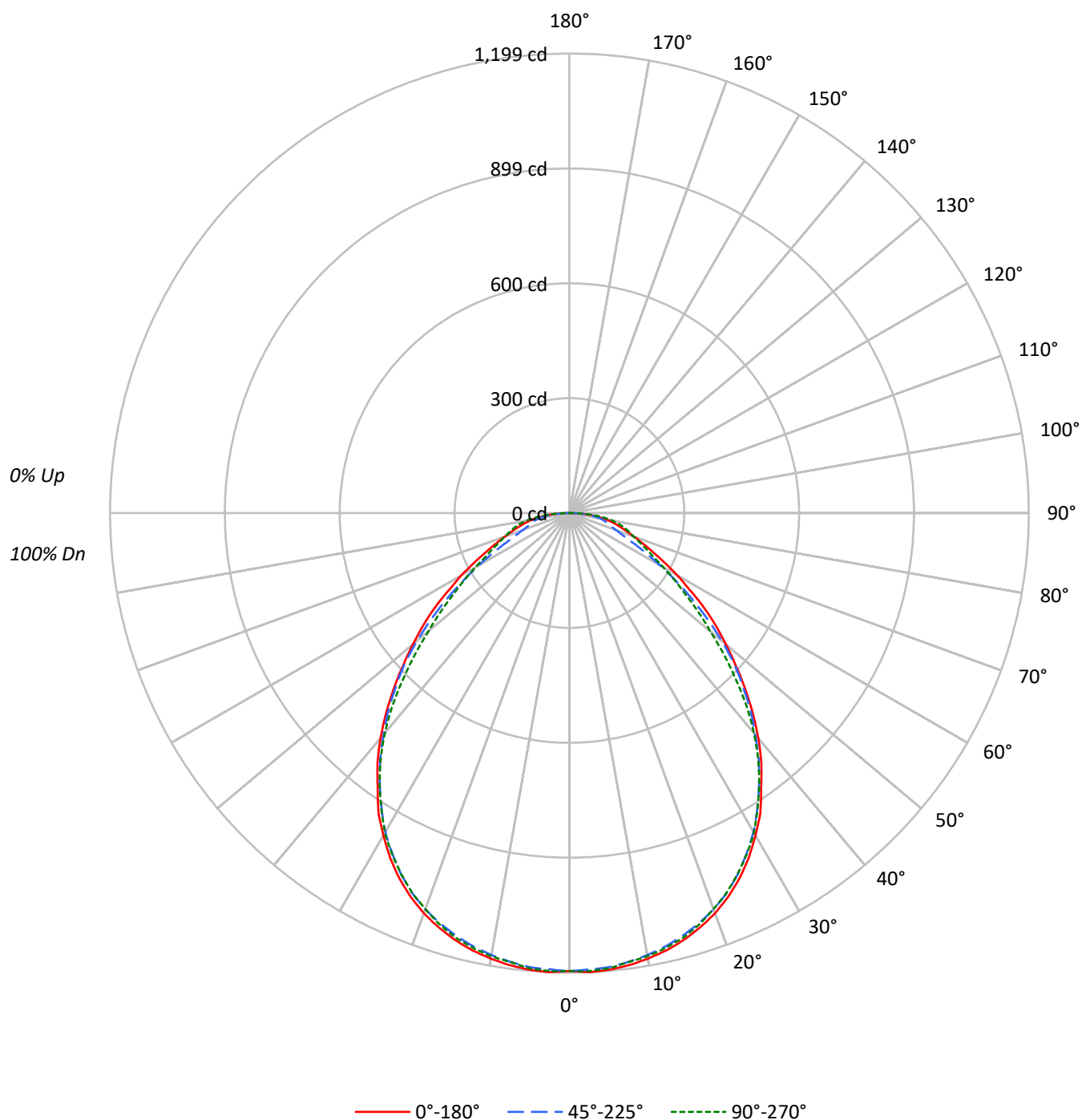
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1830	1830	1830
5°	1839	1829	1834
10°	1836	1821	1826
15°	1829	1811	1818
20°	1812	1793	1793
25°	1776	1757	1756
30°	1718	1700	1704
35°	1632	1613	1615
40°	1534	1508	1498
45°	1406	1387	1332
50°	1271	1236	1143
55°	1141	1039	986
60°	999	836	867
65°	872	658	798
70°	798	574	798
75°	798	611	879
80°	866	719	1002
85°	951	812	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	4.2
10°-20°	323.0	12.0
20°-30°	478.9	17.8
30°-40°	540.3	20.1
40°-50°	489.3	18.2
50°-60°	353.0	13.1
60°-70°	210.8	7.8
70°-80°	130.3	4.8
80°-90°	54.9	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°	915.0	34.0
0°-40°	1455.3	54.0
0°-60°	2297.6	85.3
0°-90°	2693.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1196	1195	1190	1188	1193	114
15°	1153	1146	1142	1142	1147	325
25°	1051	1045	1040	1036	1039	483
35°	873	871	863	863	864	546
45°	649	645	640	625	615	500
55°	427	414	389	370	369	381
65°	240	212	182	206	220	242
75°	135	117	103	129	148	144
85°	54	48	46	60	61	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.1	1195.1	1195.1	1195.1	1195.1
2.5°	1199.3	1195.9	1191.7	1194.2	1196.3
5°	1196.3	1194.6	1189.6	1188.4	1192.6
7.5°	1190.1	1185.9	1181.3	1183.4	1181.7
10°	1180.5	1176.7	1171.0	1171.3	1174.2
12.5°	1168.8	1164.3	1158.1	1159.7	1162.2
15°	1153.4	1146.4	1141.8	1142.3	1146.8
17.5°	1133.9	1128.5	1122.6	1123.9	1126.0
20°	1111.5	1108.5	1100.2	1097.7	1099.8
22.5°	1083.2	1077.8	1073.1	1071.9	1072.3
25°	1051.1	1045.2	1039.8	1036.1	1039.1
27.5°	1013.7	1008.7	1001.6	1000.4	1002.8
30°	971.2	967.5	961.2	959.6	963.3
32.5°	927.9	921.7	913.0	913.0	913.8
35°	872.6	871.4	862.6	863.0	863.9
37.5°	822.7	816.8	811.8	806.9	809.3
40°	767.3	760.7	754.0	750.7	749.4
42.5°	707.8	702.8	699.9	687.8	684.9
45°	649.1	645.0	640.4	624.6	615.0
47.5°	589.2	588.4	584.6	556.8	547.2
50°	533.5	532.2	518.9	489.3	479.8
52.5°	480.6	472.3	454.8	425.7	424.0
55°	427.3	414.0	389.1	369.9	369.1
57.5°	371.2	355.4	330.0	319.6	325.0
60°	326.2	302.1	273.0	274.3	282.9
62.5°	279.6	252.6	223.9	236.3	246.7
65°	240.5	211.8	181.5	206.0	220.2
67.5°	206.4	179.7	150.7	183.5	197.2
70°	178.1	156.4	128.1	162.7	178.1
72.5°	155.7	135.6	113.6	146.0	163.9
75°	134.8	117.0	103.2	128.6	148.5
77.5°	117.0	99.4	93.2	113.6	133.1
80°	98.2	82.4	81.5	99.1	113.6
82.5°	76.5	65.7	65.7	82.8	91.5
85°	54.1	47.5	46.2	60.4	61.1
87.5°	27.9	26.7	24.2	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)