

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: P219159

Luminaire Tested: **24GR-LD5-30-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219159
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-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.8 lumens
Efficiency: N/A
Efficacy: 111.7 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

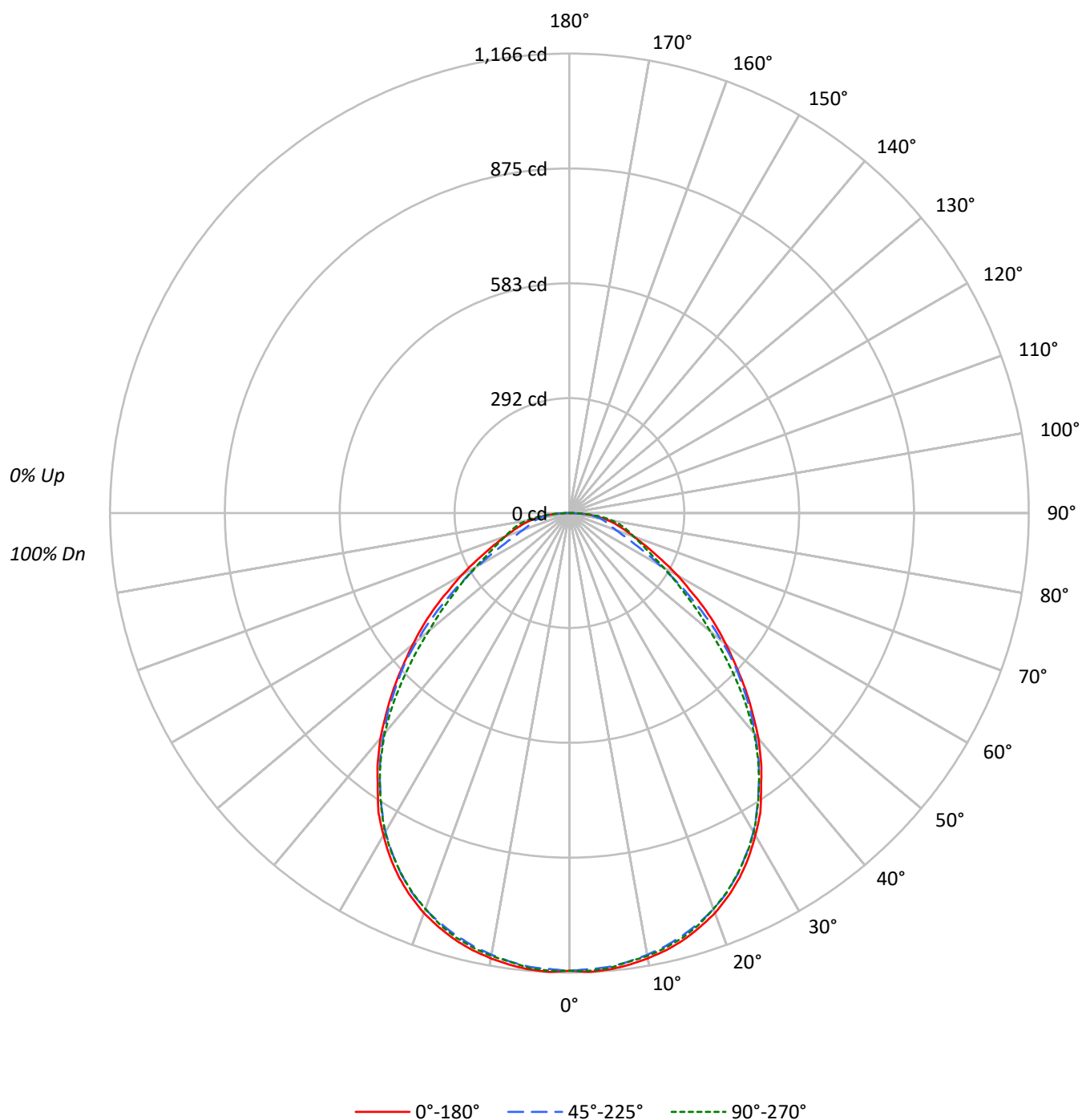
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1779	1779	1779
5°	1788	1778	1782
10°	1784	1770	1775
15°	1778	1760	1767
20°	1761	1743	1742
25°	1726	1708	1707
30°	1669	1652	1656
35°	1586	1568	1570
40°	1491	1465	1456
45°	1367	1348	1295
50°	1235	1202	1111
55°	1109	1010	958
60°	971	813	842
65°	847	639	775
70°	775	558	775
75°	776	594	855
80°	842	699	974
85°	924	789	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	4.2
10°-20°	313.9	12.0
20°-30°	465.4	17.8
30°-40°	525.1	20.1
40°-50°	475.6	18.2
50°-60°	343.1	13.1
60°-70°	204.8	7.8
70°-80°	126.6	4.8
80°-90°	53.3	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°	889.3	34.0
0°-40°	1414.4	54.0
0°-60°	2233.0	85.3
0°-90°	2617.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1163	1161	1156	1155	1159	110
15°	1121	1114	1110	1110	1115	316
25°	1022	1016	1011	1007	1010	469
35°	848	847	838	839	840	531
45°	631	627	622	607	598	486
55°	415	402	378	360	359	371
65°	234	206	176	200	214	235
75°	131	114	100	125	144	140
85°	53	46	45	59	59	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.5	1161.5	1161.5	1161.5	1161.5
2.5°	1165.5	1162.3	1158.2	1160.7	1162.7
5°	1162.7	1161.1	1156.3	1155.0	1159.1
7.5°	1156.6	1152.6	1148.2	1150.1	1148.5
10°	1147.3	1143.7	1138.1	1138.4	1141.3
12.5°	1136.0	1131.5	1125.5	1127.1	1129.6
15°	1121.1	1114.2	1109.8	1110.1	1114.6
17.5°	1102.0	1096.8	1091.1	1092.3	1094.4
20°	1080.2	1077.4	1069.3	1066.8	1068.9
22.5°	1052.7	1047.5	1043.0	1041.8	1042.2
25°	1021.5	1015.9	1010.6	1007.0	1009.8
27.5°	985.2	980.3	973.4	972.2	974.6
30°	943.9	940.3	934.2	932.6	936.2
32.5°	901.8	895.8	887.3	887.3	888.1
35°	848.0	846.9	838.4	838.8	839.5
37.5°	799.5	793.9	789.1	784.1	786.6
40°	745.7	739.2	732.8	729.6	728.4
42.5°	687.9	683.1	680.3	668.5	665.6
45°	630.9	626.9	622.4	607.1	597.7
47.5°	572.6	571.9	568.2	541.1	531.8
50°	518.5	517.2	504.3	475.6	466.3
52.5°	467.1	459.0	442.0	413.7	412.1
55°	415.3	402.4	378.2	359.6	358.7
57.5°	360.7	345.4	320.7	310.6	315.9
60°	317.0	293.6	265.3	266.5	275.0
62.5°	271.7	245.5	217.6	229.7	239.8
65°	233.8	205.9	176.3	200.2	213.9
67.5°	200.6	174.7	146.4	178.3	191.7
70°	173.1	152.1	124.5	158.1	173.1
72.5°	151.2	131.8	110.4	142.0	159.4
75°	131.1	113.6	100.3	125.0	144.4
77.5°	113.6	96.6	90.6	110.4	129.5
80°	95.5	80.1	79.3	96.2	110.4
82.5°	74.4	63.9	63.9	80.5	89.0
85°	52.6	46.1	44.9	58.6	59.4
87.5°	27.1	25.9	23.5	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)