

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: P219189

Luminaire Tested: **24GR-LD5-30-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219189
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-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2850.1 lumens
Efficiency: N/A
Efficacy: 121.6 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

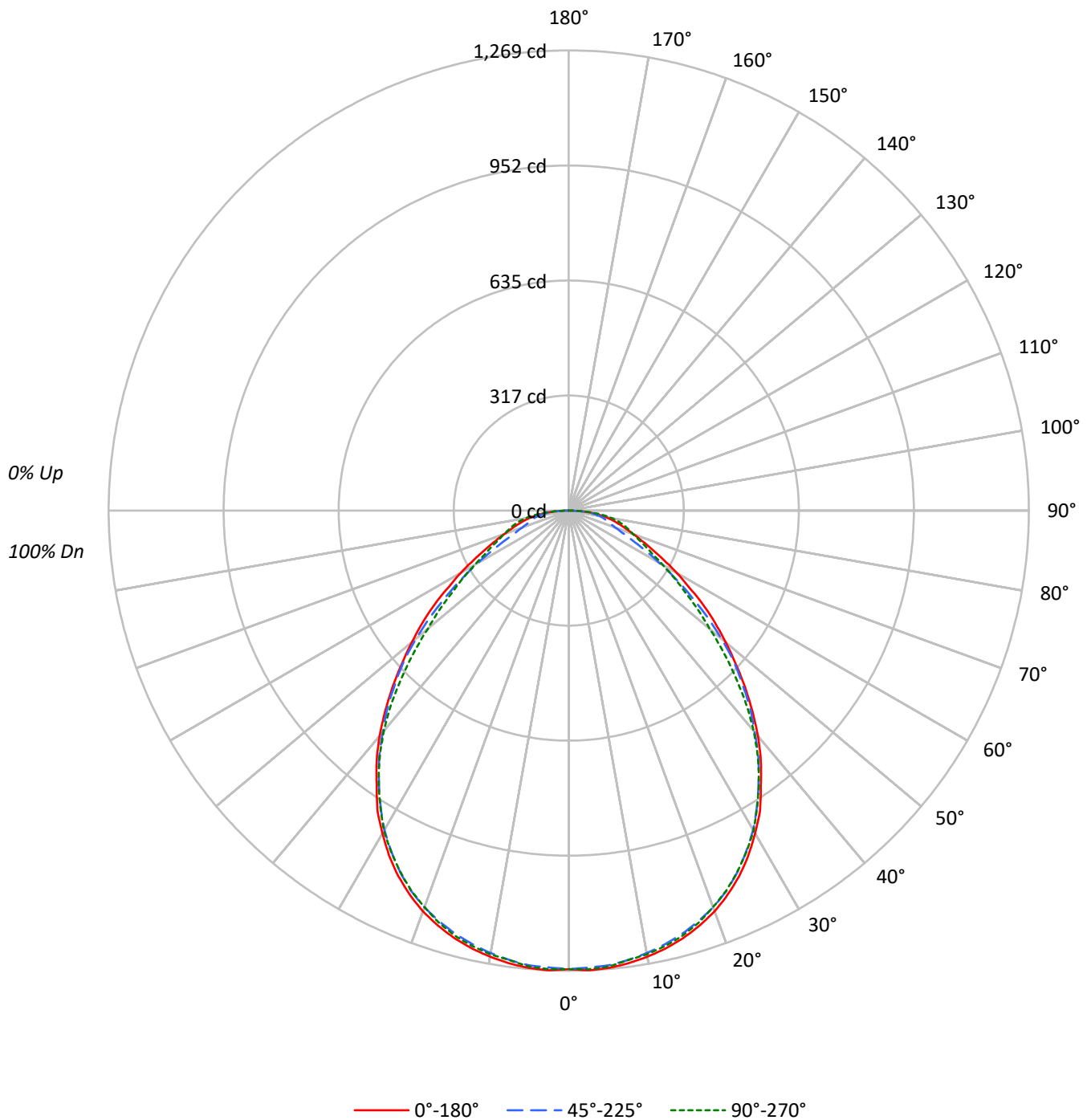
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1937	1937	1937
5°	1946	1935	1940
10°	1943	1927	1932
15°	1935	1916	1924
20°	1917	1898	1897
25°	1880	1859	1858
30°	1818	1799	1803
35°	1726	1707	1709
40°	1623	1595	1586
45°	1488	1468	1409
50°	1345	1308	1210
55°	1208	1099	1043
60°	1057	885	917
65°	922	696	844
70°	844	607	844
75°	844	646	930
80°	916	761	1060
85°	1005	859	1137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	4.2
10°-20°	341.7	12.0
20°-30°	506.7	17.8
30°-40°	571.7	20.1
40°-50°	517.7	18.2
50°-60°	373.5	13.1
60°-70°	223.0	7.8
70°-80°	137.8	4.8
80°-90°	58.1	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°	968.2	34.0
0°-40°	1539.9	54.0
0°-60°	2431.2	85.3
0°-90°	2850.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2850.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1266	1264	1259	1258	1262	120
15°	1220	1213	1208	1209	1214	344
25°	1112	1106	1100	1096	1100	511
35°	923	922	913	913	914	578
45°	687	682	678	661	651	529
55°	452	438	412	391	391	404
65°	254	224	192	218	233	256
75°	143	124	109	136	157	152
85°	57	50	49	64	65	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.5	1264.5	1264.5	1264.5	1264.5
2.5°	1269.0	1265.4	1261.0	1263.6	1265.9
5°	1265.9	1264.1	1258.8	1257.5	1261.9
7.5°	1259.3	1254.9	1250.0	1252.3	1250.4
10°	1249.2	1245.2	1239.1	1239.4	1242.5
12.5°	1236.8	1232.0	1225.4	1227.1	1229.8
15°	1220.5	1213.0	1208.2	1208.7	1213.5
17.5°	1199.8	1194.1	1187.9	1189.3	1191.5
20°	1176.1	1173.0	1164.2	1161.5	1163.7
22.5°	1146.1	1140.4	1135.5	1134.2	1134.7
25°	1112.2	1106.0	1100.3	1096.4	1099.5
27.5°	1072.6	1067.3	1059.8	1058.5	1061.2
30°	1027.7	1023.8	1017.1	1015.4	1019.3
32.5°	981.9	975.2	966.1	966.1	966.9
35°	923.3	922.0	912.7	913.2	914.1
37.5°	870.5	864.3	859.0	853.8	856.4
40°	811.9	804.9	797.8	794.3	793.0
42.5°	748.9	743.7	740.6	727.8	724.7
45°	686.9	682.5	677.6	660.9	650.7
47.5°	623.4	622.6	618.6	589.1	579.0
50°	564.5	563.1	549.1	517.8	507.7
52.5°	508.5	499.8	481.2	450.4	448.6
55°	452.2	438.1	411.7	391.4	390.6
57.5°	392.8	376.0	349.2	338.2	343.9
60°	345.2	319.7	288.8	290.2	299.4
62.5°	295.8	267.3	236.9	250.1	261.1
65°	254.5	224.1	192.0	217.9	233.0
67.5°	218.4	190.2	159.4	194.2	208.7
70°	188.5	165.5	135.6	172.2	188.5
72.5°	164.7	143.5	120.2	154.5	173.4
75°	142.7	123.8	109.2	136.0	157.2
77.5°	123.8	105.2	98.6	120.2	140.9
80°	103.9	87.2	86.3	104.8	120.2
82.5°	81.0	69.5	69.5	87.6	96.8
85°	57.2	50.2	48.9	63.9	64.7
87.5°	29.5	28.2	25.6	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)