

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: P225728

Luminaire Tested: **22GR-LD5-28-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

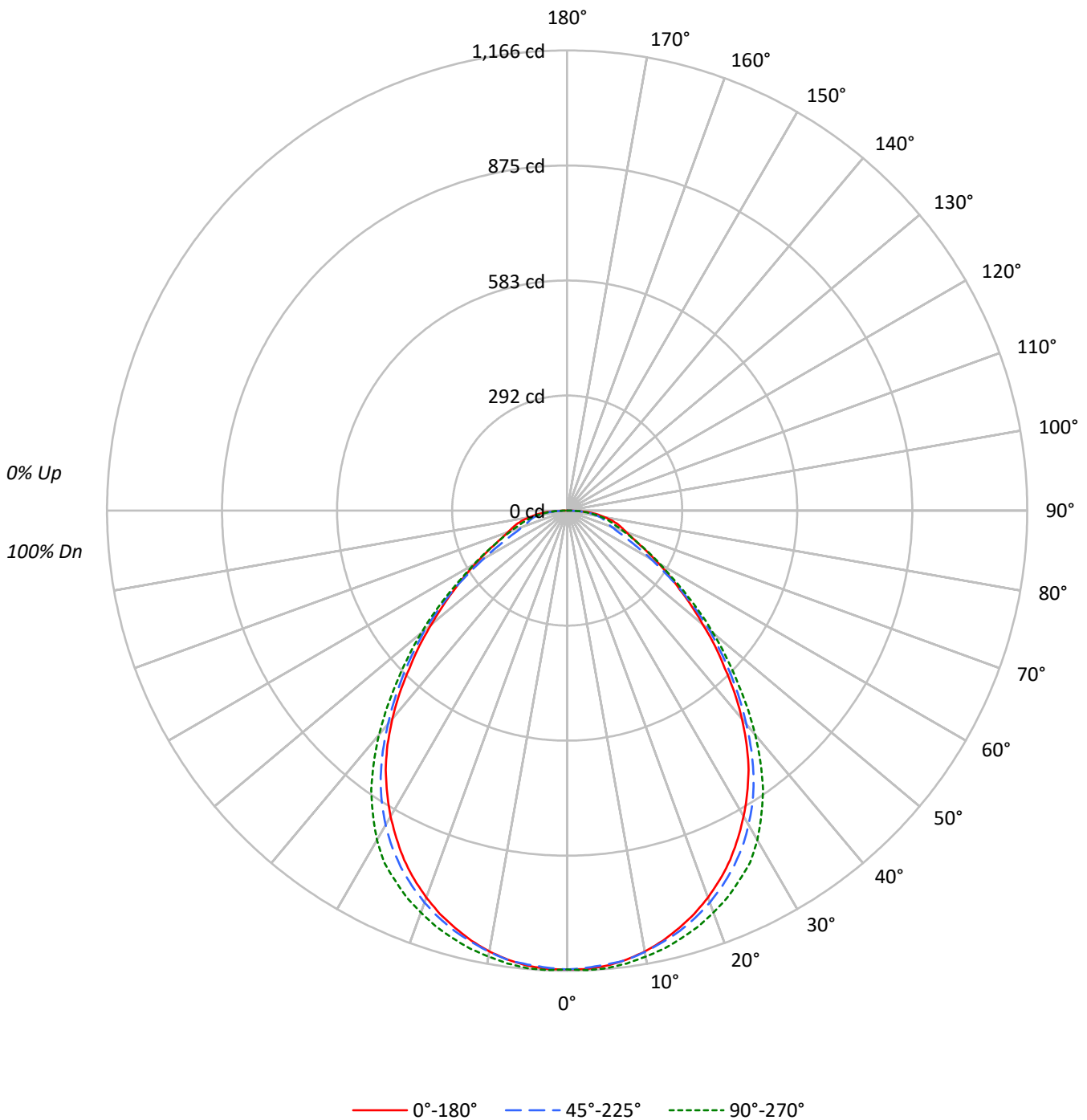
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3724	3724	3724
5°	3721	3711	3741
10°	3689	3693	3731
15°	3630	3656	3718
20°	3556	3602	3694
25°	3452	3522	3651
30°	3308	3401	3564
35°	3134	3221	3384
40°	2882	2953	3100
45°	2560	2653	2749
50°	2236	2338	2408
55°	1944	1970	2042
60°	1710	1567	1744
65°	1520	1253	1529
70°	1493	1112	1410
75°	1631	1222	1440
80°	1789	1453	1540
85°	2139	1683	1727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.4
10°-20°	311.6	12.4
20°-30°	460.0	18.2
30°-40°	514.8	20.4
40°-50°	452.0	17.9
50°-60°	319.9	12.7
60°-70°	186.2	7.4
70°-80°	116.0	4.6
80°-90°	51.9	2.1
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°	881.5	34.9
0°-40°	1396.3	55.4
0°-60°	2168.2	86.0
0°-90°	2522.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1157	1154	1154	1160	1164	110
15°	1095	1097	1103	1114	1122	309
25°	977	981	997	1020	1033	449
35°	802	805	824	849	866	499
45°	565	572	586	600	607	437
55°	348	355	353	359	366	315
65°	201	185	165	180	202	203
75°	132	114	99	101	116	138
85°	58	60	46	45	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1162.7	1160.3	1159.2	1163.3	1165.6
5°	1157.4	1154.5	1154.5	1160.3	1163.8
7.5°	1148.0	1145.1	1148.6	1153.9	1157.4
10°	1134.4	1133.3	1135.6	1142.7	1147.4
12.5°	1116.8	1117.4	1119.7	1130.9	1136.8
15°	1095.0	1097.4	1102.7	1114.5	1121.5
17.5°	1071.6	1073.3	1081.5	1095.0	1105.1
20°	1043.3	1046.8	1056.9	1073.9	1083.9
22.5°	1012.1	1016.3	1028.6	1049.2	1061.5
25°	976.9	981.0	996.8	1020.4	1033.3
27.5°	936.9	943.3	961.0	986.8	1004.5
30°	894.5	899.8	919.8	949.2	963.9
32.5°	849.2	855.7	874.5	902.7	915.7
35°	801.6	805.1	824.0	848.6	865.7
37.5°	747.5	749.2	766.9	789.8	805.1
40°	689.3	690.4	706.3	728.1	741.6
42.5°	628.7	629.3	646.3	662.8	674.6
45°	565.2	571.6	585.7	599.8	606.9
47.5°	508.1	512.8	525.8	538.1	544.6
50°	448.7	460.5	469.3	475.8	483.4
52.5°	397.6	407.6	409.9	417.5	424.1
55°	348.1	355.2	352.9	359.3	365.8
57.5°	306.4	302.9	295.2	306.4	314.7
60°	267.0	257.6	244.7	260.0	272.3
62.5°	231.7	216.5	200.6	215.9	236.4
65°	200.6	184.6	165.3	180.0	201.8
67.5°	177.0	160.6	137.6	152.3	174.1
70°	159.4	142.3	118.8	131.2	150.6
72.5°	145.3	127.0	106.5	114.7	131.2
75°	131.8	113.5	98.8	101.1	116.4
77.5°	115.8	102.3	90.6	89.4	101.1
80°	97.0	92.9	78.8	77.1	83.5
82.5°	80.0	78.3	64.7	63.0	65.3
85°	58.2	60.5	45.8	44.7	47.0
87.5°	30.6	33.5	24.1	25.3	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)