

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: P225784

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A-UNV-L940-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.7 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

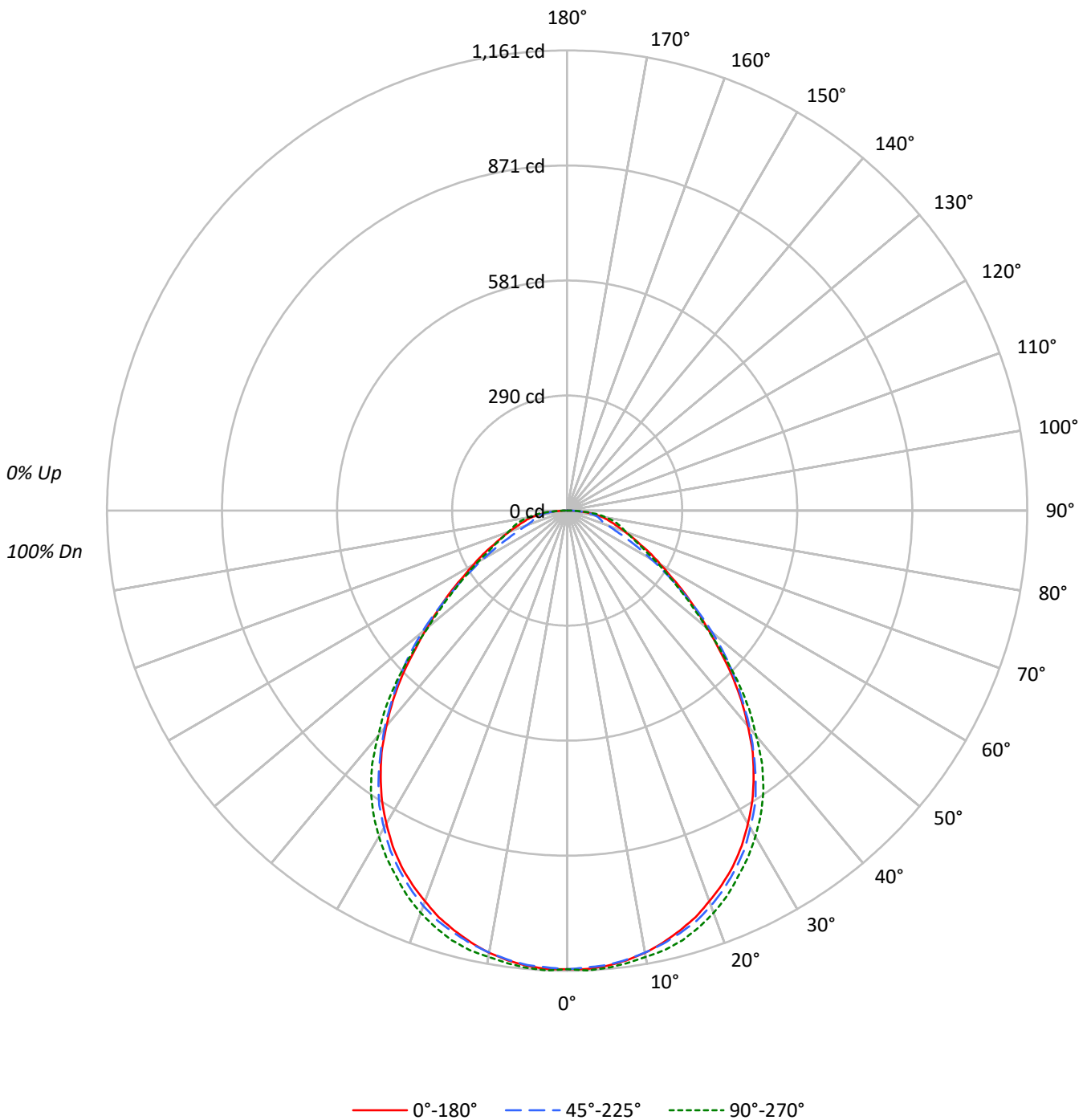
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3706	3706	3706
5°	3707	3701	3724
10°	3684	3682	3719
15°	3638	3657	3722
20°	3575	3617	3681
25°	3499	3538	3602
30°	3372	3418	3512
35°	3207	3243	3375
40°	2964	2996	3102
45°	2663	2711	2753
50°	2303	2384	2279
55°	2009	1956	1930
60°	1740	1567	1672
65°	1555	1230	1501
70°	1442	1019	1481
75°	1440	1076	1644
80°	1593	1356	1853
85°	1661	1470	2094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	4.3
10°-20°	311.9	12.3
20°-30°	461.2	18.3
30°-40°	520.5	20.6
40°-50°	458.8	18.2
50°-60°	314.8	12.5
60°-70°	185.7	7.4
70°-80°	115.9	4.6
80°-90°	48.3	1.9
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°	882.6	34.9
0°-40°	1403.1	55.5
0°-60°	2176.7	86.1
0°-90°	2526.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1153	1151	1151	1155	1158	109
15°	1097	1098	1103	1116	1122	309
25°	990	994	1001	1014	1020	455
35°	820	827	830	850	863	511
45°	588	591	599	602	608	452
55°	360	351	350	339	346	323
65°	205	180	162	188	198	207
75°	116	105	87	122	133	125
85°	45	42	40	52	57	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.1	1157.1	1157.1	1157.1	1157.1
2.5°	1157.7	1154.8	1153.6	1158.3	1161.3
5°	1153.0	1150.7	1151.3	1155.3	1158.3
7.5°	1144.7	1143.0	1143.0	1148.9	1151.8
10°	1133.0	1132.4	1132.4	1139.5	1143.6
12.5°	1116.5	1117.1	1119.5	1128.9	1136.0
15°	1097.2	1098.3	1103.0	1116.5	1122.5
17.5°	1075.9	1075.9	1085.4	1096.0	1103.0
20°	1048.9	1050.7	1061.3	1073.0	1080.1
22.5°	1021.3	1024.3	1033.0	1046.6	1053.1
25°	990.1	993.6	1001.3	1014.3	1019.5
27.5°	953.7	958.4	966.6	976.0	987.2
30°	911.9	919.0	924.3	937.2	949.6
32.5°	869.6	876.1	881.9	895.5	909.6
35°	820.2	827.2	829.6	849.6	863.2
37.5°	769.6	772.6	773.7	793.8	808.5
40°	709.1	715.0	716.7	732.6	742.0
42.5°	650.8	653.3	656.8	668.6	679.7
45°	588.0	590.9	598.6	602.1	607.9
47.5°	522.1	531.0	539.7	528.6	529.2
50°	462.2	469.2	478.6	457.4	457.4
52.5°	408.7	412.2	412.7	395.1	398.6
55°	359.8	351.1	350.4	338.7	345.7
57.5°	311.1	299.3	295.2	291.6	299.9
60°	271.7	250.5	244.6	249.9	261.1
62.5°	239.3	212.2	201.1	214.6	224.6
65°	205.2	180.5	162.3	187.6	198.1
67.5°	178.7	155.2	131.7	167.6	175.2
70°	154.0	135.8	108.8	152.3	158.2
72.5°	134.1	120.0	94.1	137.6	144.7
75°	116.4	104.7	87.0	121.7	132.9
77.5°	102.3	89.4	81.1	105.3	118.8
80°	86.4	73.5	73.5	88.2	100.5
82.5°	68.2	57.6	59.4	71.7	80.6
85°	45.2	42.3	40.0	52.3	57.0
87.5°	23.0	23.5	21.2	27.0	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)