

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: P225786

Luminaire Tested: **22GR-LD5-36-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225786
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-LD5-36-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: 3176.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

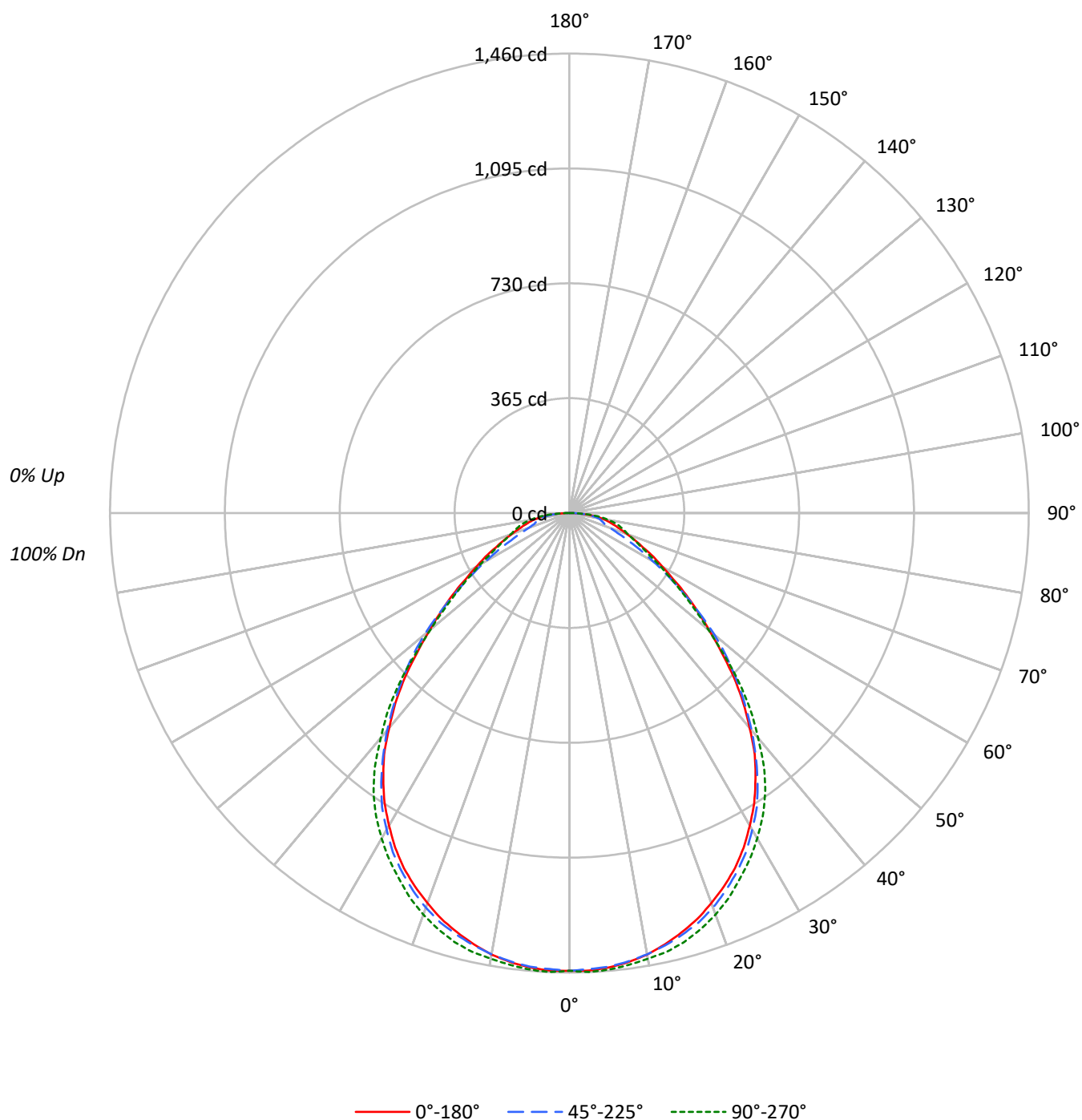
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4658	4658	4658
5°	4659	4652	4681
10°	4631	4629	4675
15°	4572	4597	4678
20°	4493	4546	4627
25°	4398	4447	4529
30°	4239	4296	4414
35°	4031	4077	4242
40°	3726	3766	3899
45°	3347	3407	3461
50°	2894	2997	2865
55°	2525	2459	2427
60°	2187	1969	2102
65°	1954	1546	1888
70°	1814	1280	1861
75°	1811	1354	2066
80°	2003	1704	2331
85°	2091	1845	2635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	4.3
10°-20°	392.0	12.3
20°-30°	579.8	18.3
30°-40°	654.3	20.6
40°-50°	576.7	18.2
50°-60°	395.7	12.5
60°-70°	233.5	7.4
70°-80°	145.7	4.6
80°-90°	60.7	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°	1109.4	34.9
0°-40°	1763.7	55.5
0°-60°	2736.1	86.1
0°-90°	3176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1449	1446	1447	1452	1456	138
15°	1379	1381	1386	1404	1411	389
25°	1245	1249	1259	1275	1282	572
35°	1031	1040	1043	1068	1085	642
45°	739	743	752	757	764	568
55°	452	441	440	426	435	406
65°	258	227	204	236	249	260
75°	146	132	109	153	167	157
85°	57	53	50	66	72	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1455.2	1451.5	1450.0	1456.0	1459.7
5°	1449.3	1446.3	1447.1	1452.3	1456.0
7.5°	1439.0	1436.7	1436.7	1444.1	1447.8
10°	1424.2	1423.5	1423.5	1432.3	1437.5
12.5°	1403.5	1404.2	1407.2	1419.0	1427.9
15°	1379.1	1380.6	1386.5	1403.5	1410.9
17.5°	1352.5	1352.5	1364.3	1377.6	1386.5
20°	1318.5	1320.7	1334.0	1348.8	1357.7
22.5°	1283.7	1287.4	1298.5	1315.5	1323.7
25°	1244.6	1249.1	1258.6	1274.9	1281.6
27.5°	1198.8	1204.7	1215.0	1226.9	1240.9
30°	1146.3	1155.2	1161.8	1178.1	1193.6
32.5°	1093.1	1101.2	1108.6	1125.6	1143.4
35°	1031.0	1039.8	1042.8	1067.9	1085.0
37.5°	967.4	971.1	972.6	997.8	1016.2
40°	891.3	898.7	900.9	920.9	932.7
42.5°	818.1	821.1	825.5	840.3	854.3
45°	739.1	742.8	752.3	756.8	764.2
47.5°	656.3	667.4	678.5	664.4	665.1
50°	580.9	589.8	601.6	575.0	575.0
52.5°	513.7	518.1	518.8	496.6	501.1
55°	452.3	441.3	440.5	425.7	434.6
57.5°	391.0	376.2	371.0	366.6	376.9
60°	341.4	314.8	307.4	314.1	328.2
62.5°	300.8	266.8	252.8	269.8	282.3
65°	257.9	226.9	204.0	235.7	249.1
67.5°	224.7	195.1	165.6	210.6	220.2
70°	193.7	170.7	136.7	191.4	198.8
72.5°	168.5	150.8	118.2	172.9	181.8
75°	146.4	131.6	109.4	153.0	167.0
77.5°	128.6	112.3	102.0	132.3	149.3
80°	108.6	92.4	92.4	110.9	126.4
82.5°	85.7	72.4	74.6	90.1	101.2
85°	56.9	53.2	50.2	65.8	71.7
87.5°	28.8	29.6	26.6	34.0	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)