

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: P229575

Luminaire Tested: **22RLN-LD5-35-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

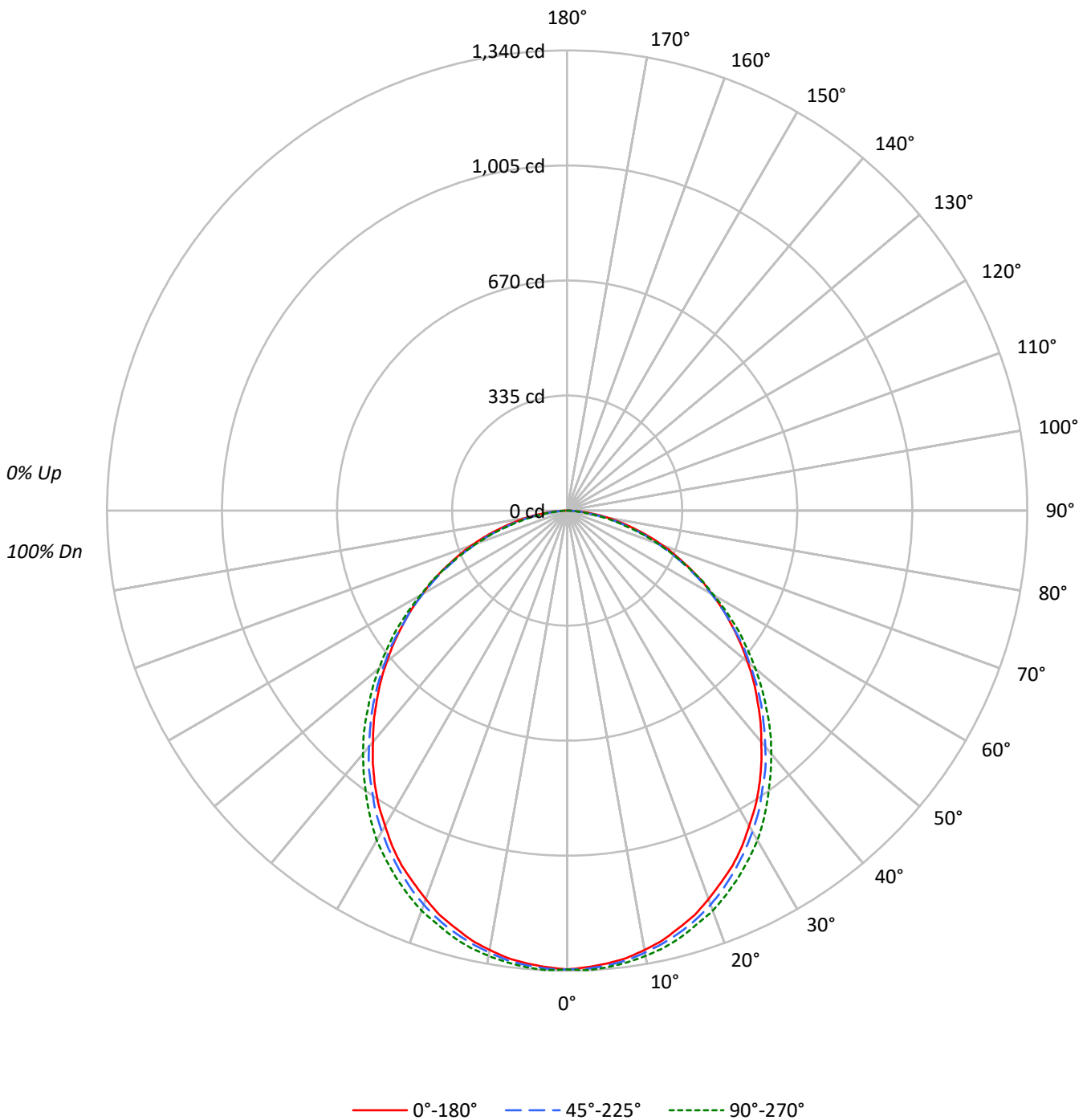
Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 30.57
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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4279	4279	4279
5°	4257	4275	4292
10°	4226	4250	4282
15°	4172	4215	4262
20°	4104	4163	4226
25°	4029	4083	4167
30°	3920	3992	4100
35°	3815	3874	3984
40°	3676	3753	3866
45°	3551	3619	3723
50°	3420	3458	3566
55°	3277	3283	3398
60°	3121	3107	3156
65°	2954	2889	2930
70°	2768	2627	2636
75°	2506	2305	2237
80°	2217	1937	1798
85°	1790	1352	1154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.7
10°-20°	358.5	10.5
20°-30°	532.9	15.6
30°-40°	622.1	18.2
40°-50°	617.4	18.1
50°-60°	529.9	15.5
60°-70°	380.3	11.1
70°-80°	201.5	5.9
80°-90°	47.2	1.4
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°	1017.7	29.8
0°-40°	1639.7	48.0
0°-60°	2787.0	81.6
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1324	1326	1330	1334	1335	126
15°	1258	1263	1271	1281	1285	355
25°	1140	1144	1155	1173	1179	524
35°	976	979	991	1012	1019	609
45°	784	787	799	813	822	605
55°	587	584	588	601	609	525
65°	390	380	381	384	387	387
75°	202	193	186	184	181	216
85°	49	42	37	31	31	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.2	1336.2	1336.2	1336.2	1336.2
2.5°	1330.8	1331.9	1335.2	1338.4	1339.5
5°	1324.3	1326.5	1329.7	1334.1	1335.2
7.5°	1314.6	1316.8	1321.1	1325.4	1327.6
10°	1299.4	1302.7	1307.0	1314.6	1316.8
12.5°	1282.1	1284.3	1290.8	1299.4	1303.8
15°	1258.3	1262.6	1271.3	1281.0	1285.4
17.5°	1234.5	1237.7	1248.5	1258.3	1261.5
20°	1204.1	1210.6	1221.5	1233.4	1239.9
22.5°	1171.7	1177.1	1190.1	1204.1	1210.6
25°	1140.2	1143.5	1155.4	1172.7	1179.2
27.5°	1102.3	1105.6	1118.6	1135.9	1144.6
30°	1060.1	1065.5	1079.6	1099.1	1108.8
32.5°	1020.1	1024.4	1038.5	1055.8	1065.5
35°	975.7	978.9	990.8	1012.5	1019.0
37.5°	929.1	932.3	948.6	964.8	972.4
40°	879.3	883.6	897.7	913.9	924.8
42.5°	833.8	836.0	847.9	866.3	876.0
45°	784.0	787.2	799.1	813.2	821.9
47.5°	736.3	735.3	747.2	763.4	769.9
50°	686.5	684.4	694.1	710.4	715.8
52.5°	636.7	633.5	644.3	656.2	660.5
55°	586.9	583.7	588.0	601.0	608.6
57.5°	538.2	532.8	538.2	544.7	551.2
60°	487.3	478.6	485.1	492.7	492.7
62.5°	440.7	431.0	434.2	439.6	442.9
65°	389.8	380.1	381.2	384.4	386.6
67.5°	342.2	332.4	330.3	331.4	332.4
70°	295.6	284.8	280.5	278.3	281.5
72.5°	248.0	237.1	235.0	230.6	231.7
75°	202.5	192.7	186.3	184.1	180.8
77.5°	159.2	150.5	145.1	138.6	137.5
80°	120.2	109.4	105.0	100.7	97.5
82.5°	84.5	74.7	67.1	62.8	59.6
85°	48.7	42.2	36.8	31.4	31.4
87.5°	19.5	15.2	13.0	11.9	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)