

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: P229625

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-RDP-UNV-L840-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3581.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

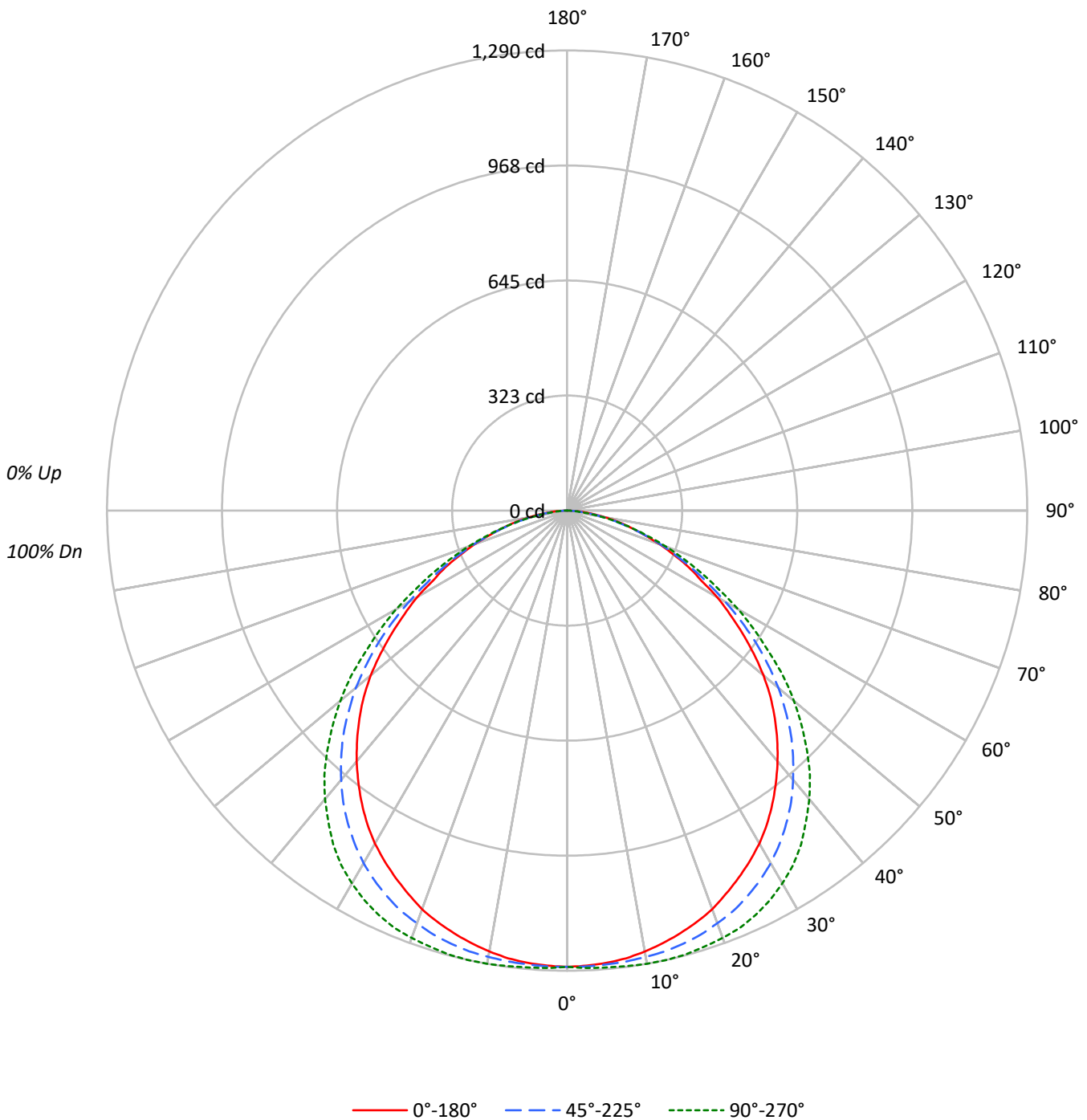
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4096	4096	4096
5°	4091	4105	4133
10°	4082	4131	4195
15°	4067	4168	4270
20°	4053	4195	4345
25°	4017	4218	4420
30°	3985	4220	4463
35°	3922	4188	4470
40°	3837	4120	4414
45°	3730	4018	4305
50°	3579	3852	4136
55°	3351	3608	3852
60°	3115	3283	3550
65°	2855	2955	3154
70°	2584	2626	2748
75°	2277	2222	2304
80°	1979	1818	1737
85°	1609	1209	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.4
10°-20°	355.2	9.9
20°-30°	550.3	15.4
30°-40°	669.7	18.7
40°-50°	682.1	19.0
50°-60°	575.2	16.1
60°-70°	389.1	10.9
70°-80°	194.5	5.4
80°-90°	43.3	1.2
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°	1027.2	28.7
0°-40°	1696.9	47.4
0°-60°	2954.2	82.5
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1273	1275	1277	1284	1286	121
15°	1227	1235	1257	1279	1288	346
25°	1137	1154	1194	1233	1251	524
35°	1003	1025	1071	1121	1143	627
45°	824	839	887	933	951	634
55°	600	609	646	677	690	537
65°	377	370	390	407	416	372
75°	184	177	180	182	186	197
85°	44	37	33	28	28	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.1	1279.1	1279.1	1279.1	1279.1
2.5°	1277.0	1277.0	1279.1	1281.3	1283.5
5°	1272.6	1274.8	1277.0	1283.5	1285.7
7.5°	1266.0	1268.2	1274.8	1283.5	1287.9
10°	1255.1	1259.4	1270.4	1283.5	1290.1
12.5°	1241.9	1248.5	1266.0	1281.3	1290.1
15°	1226.6	1235.3	1257.2	1279.1	1287.9
17.5°	1209.1	1220.0	1246.3	1270.4	1281.3
20°	1189.3	1202.5	1231.0	1261.6	1274.8
22.5°	1163.1	1180.6	1215.6	1250.7	1266.0
25°	1136.8	1154.3	1193.7	1233.1	1250.7
27.5°	1108.3	1128.0	1169.6	1213.4	1231.0
30°	1077.6	1095.2	1141.2	1187.2	1206.9
32.5°	1042.6	1060.1	1108.3	1156.5	1178.4
35°	1003.2	1025.1	1071.1	1121.4	1143.3
37.5°	961.5	981.3	1031.6	1079.8	1099.5
40°	917.7	937.5	985.6	1036.0	1055.7
42.5°	871.7	891.5	937.5	985.6	1007.5
45°	823.6	838.9	887.1	933.1	950.6
47.5°	773.2	784.1	830.1	873.9	891.5
50°	718.4	729.4	773.2	812.6	830.1
52.5°	659.3	668.0	709.7	744.7	764.4
55°	600.1	608.9	646.1	676.8	689.9
57.5°	541.0	545.4	578.2	608.9	622.1
60°	486.3	486.3	512.5	536.6	554.2
62.5°	422.7	429.3	449.0	473.1	479.7
65°	376.7	370.2	389.9	407.4	416.2
67.5°	324.2	319.8	332.9	348.3	352.6
70°	276.0	269.4	280.4	289.1	293.5
72.5°	225.6	223.4	227.8	234.4	236.6
75°	184.0	177.4	179.6	181.8	186.2
77.5°	146.8	135.8	138.0	135.8	138.0
80°	107.3	98.6	98.6	96.4	94.2
82.5°	72.3	67.9	63.5	59.1	56.9
85°	43.8	37.2	32.9	28.5	28.5
87.5°	17.5	13.1	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)