

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: P229613

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229613
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-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

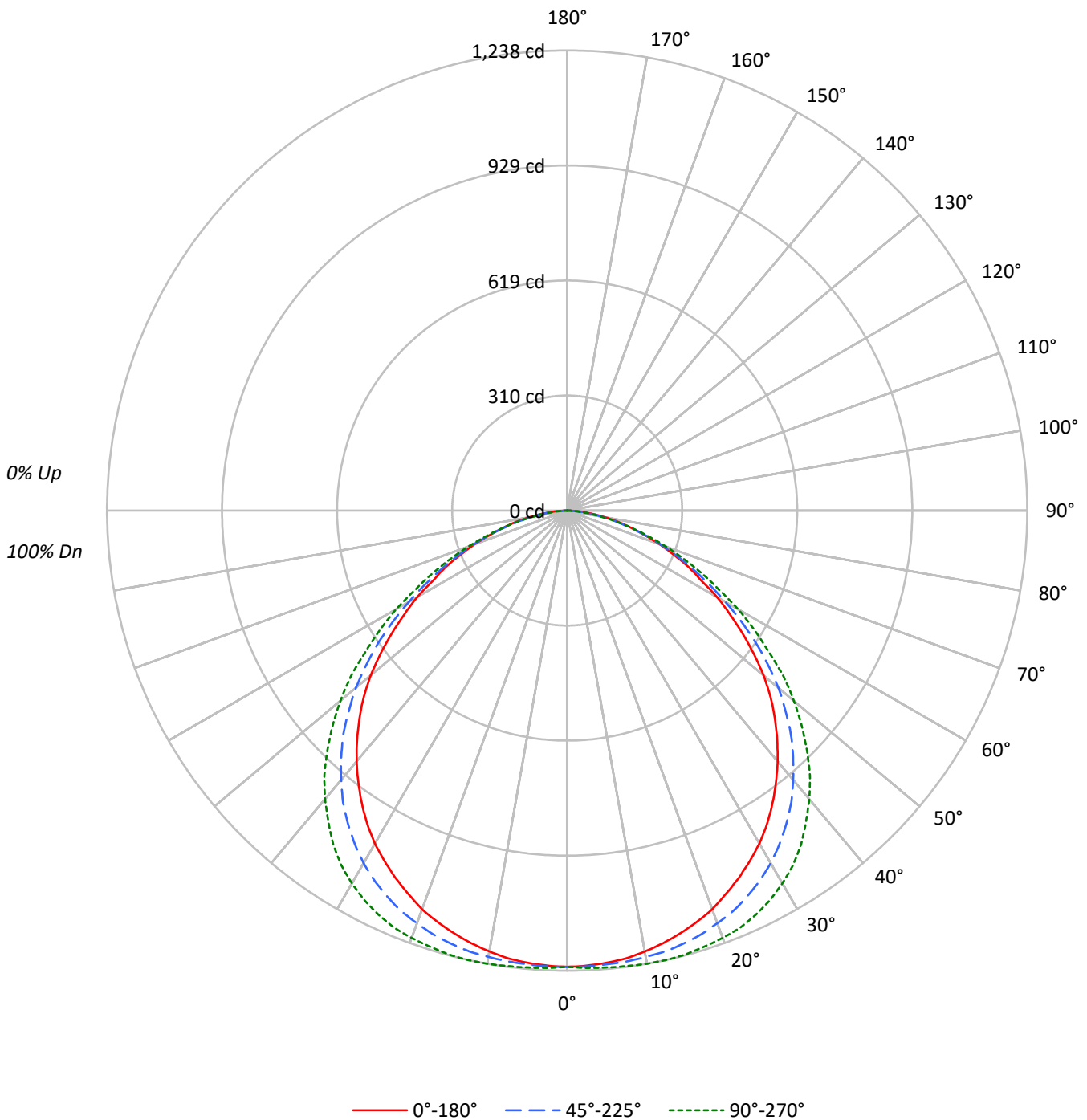
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3932	3932	3932
5°	3927	3940	3967
10°	3917	3965	4027
15°	3903	4001	4098
20°	3890	4027	4170
25°	3856	4049	4242
30°	3825	4050	4283
35°	3764	4019	4290
40°	3682	3955	4236
45°	3580	3856	4132
50°	3435	3697	3969
55°	3216	3463	3697
60°	2989	3151	3407
65°	2740	2836	3027
70°	2480	2520	2638
75°	2185	2133	2211
80°	1900	1745	1667
85°	1543	1157	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.4
10°-20°	340.9	9.9
20°-30°	528.1	15.4
30°-40°	642.8	18.7
40°-50°	654.6	19.0
50°-60°	552.1	16.1
60°-70°	373.4	10.9
70°-80°	186.6	5.4
80°-90°	41.5	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°	985.9	28.7
0°-40°	1628.7	47.4
0°-60°	2835.4	82.5
0°-90°	3437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1221	1224	1226	1232	1234	116
15°	1177	1186	1207	1228	1236	332
25°	1091	1108	1146	1184	1200	503
35°	963	984	1028	1076	1097	602
45°	790	805	851	896	912	609
55°	576	584	620	650	662	515
65°	362	355	374	391	399	357
75°	177	170	172	174	179	189
85°	42	36	32	27	27	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.7	1227.7	1227.7	1227.7	1227.7
2.5°	1225.6	1225.6	1227.7	1229.8	1231.9
5°	1221.4	1223.5	1225.6	1231.9	1234.0
7.5°	1215.1	1217.2	1223.5	1231.9	1236.1
10°	1204.6	1208.8	1219.3	1231.9	1238.2
12.5°	1192.0	1198.3	1215.1	1229.8	1238.2
15°	1177.3	1185.7	1206.7	1227.7	1236.1
17.5°	1160.4	1170.9	1196.2	1219.3	1229.8
20°	1141.5	1154.1	1181.5	1210.9	1223.5
22.5°	1116.3	1133.1	1166.7	1200.4	1215.1
25°	1091.1	1107.9	1145.7	1183.6	1200.4
27.5°	1063.7	1082.7	1122.6	1164.6	1181.5
30°	1034.3	1051.1	1095.3	1139.4	1158.3
32.5°	1000.7	1017.5	1063.7	1110.0	1131.0
35°	962.8	983.8	1028.0	1076.3	1097.4
37.5°	922.9	941.8	990.2	1036.4	1055.3
40°	880.8	899.8	946.0	994.4	1013.3
42.5°	836.7	855.6	899.8	946.0	967.0
45°	790.4	805.2	851.4	895.6	912.4
47.5°	742.1	752.6	796.7	838.8	855.6
50°	689.5	700.0	742.1	779.9	796.7
52.5°	632.8	641.2	681.1	714.8	733.7
55°	576.0	584.4	620.2	649.6	662.2
57.5°	519.3	523.5	555.0	584.4	597.0
60°	466.7	466.7	491.9	515.0	531.9
62.5°	405.7	412.0	431.0	454.1	460.4
65°	361.6	355.3	374.2	391.0	399.4
67.5°	311.1	306.9	319.5	334.3	338.5
70°	264.9	258.6	269.1	277.5	281.7
72.5°	216.5	214.4	218.6	224.9	227.0
75°	176.6	170.3	172.4	174.5	178.7
77.5°	140.9	130.3	132.4	130.3	132.4
80°	103.0	94.6	94.6	92.5	90.4
82.5°	69.4	65.2	61.0	56.8	54.7
85°	42.0	35.7	31.5	27.3	27.3
87.5°	16.8	12.6	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)