

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: P229586

Luminaire Tested: **22RLN-LD5-31-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229586
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-LD5-31-UNV-L840-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

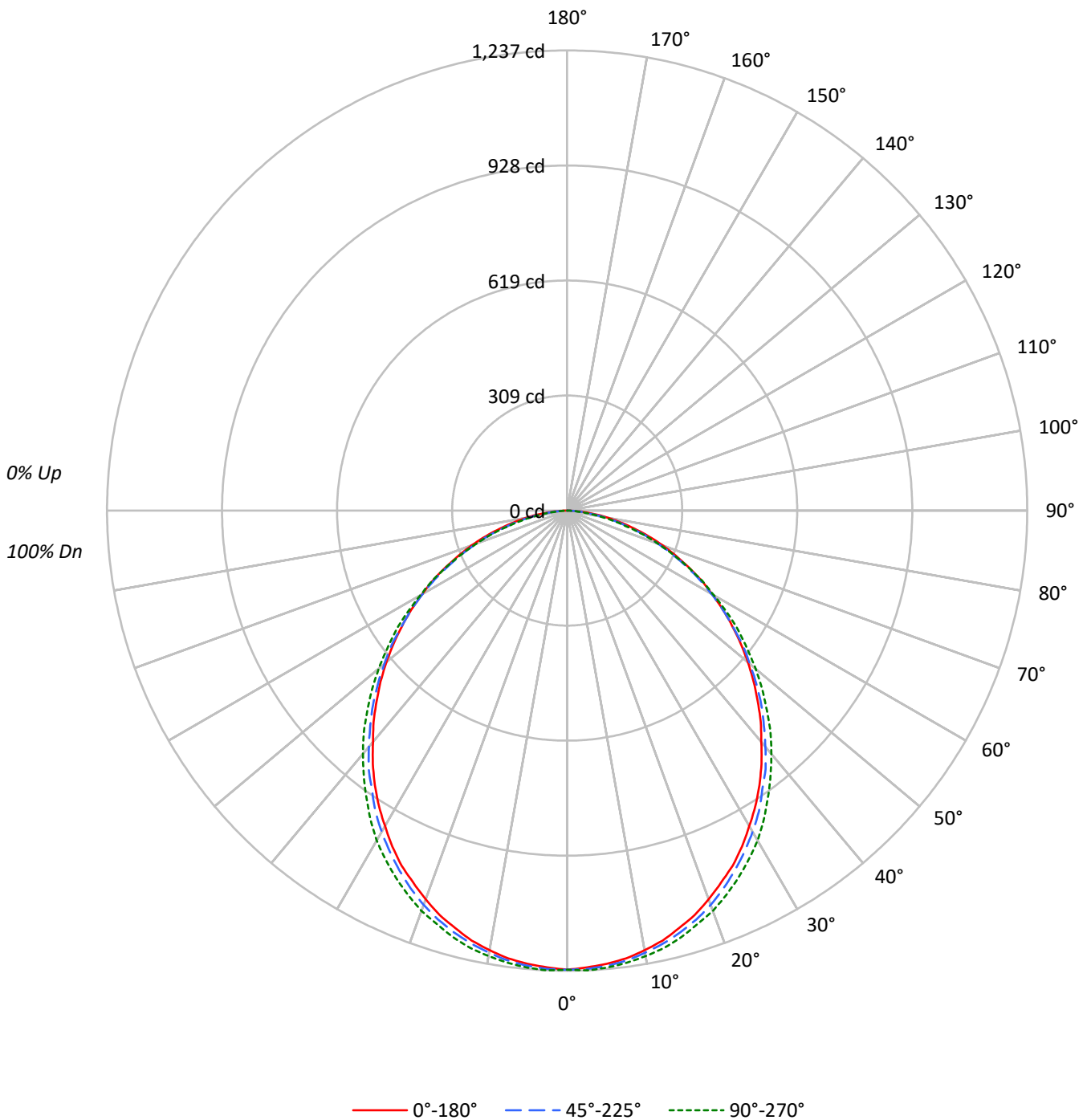
Lumens per Lamp: N/A
Luminaire Lumens: 3154.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 26.6
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	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°	3953	3953	3953
5°	3932	3948	3965
10°	3903	3925	3955
15°	3853	3893	3936
20°	3790	3845	3903
25°	3721	3771	3849
30°	3621	3687	3787
35°	3523	3578	3679
40°	3395	3466	3571
45°	3280	3343	3438
50°	3159	3194	3294
55°	3027	3032	3139
60°	2883	2870	2915
65°	2728	2667	2705
70°	2556	2425	2435
75°	2314	2128	2066
80°	2047	1789	1660
85°	1654	1249	1066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.7
10°-20°	331.1	10.5
20°-30°	492.1	15.6
30°-40°	574.5	18.2
40°-50°	570.3	18.1
50°-60°	489.4	15.5
60°-70°	351.2	11.1
70°-80°	186.1	5.9
80°-90°	43.6	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°	939.9	29.8
0°-40°	1514.4	48.0
0°-60°	2574.0	81.6
0°-90°	3154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1223	1225	1228	1232	1233	116
15°	1162	1166	1174	1183	1187	328
25°	1053	1056	1067	1083	1089	484
35°	901	904	915	935	941	563
45°	724	727	738	751	759	559
55°	542	539	543	555	562	485
65°	360	351	352	355	357	357
75°	187	178	172	170	167	199
85°	45	39	34	29	29	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.2	1234.2	1234.2	1234.2	1234.2
2.5°	1229.1	1230.1	1233.2	1236.2	1237.2
5°	1223.1	1225.1	1228.1	1232.1	1233.2
7.5°	1214.1	1216.1	1220.1	1224.1	1226.1
10°	1200.1	1203.1	1207.1	1214.1	1216.1
12.5°	1184.1	1186.1	1192.1	1200.1	1204.1
15°	1162.1	1166.1	1174.1	1183.1	1187.1
17.5°	1140.1	1143.1	1153.1	1162.1	1165.1
20°	1112.1	1118.1	1128.1	1139.1	1145.1
22.5°	1082.1	1087.1	1099.1	1112.1	1118.1
25°	1053.1	1056.1	1067.1	1083.1	1089.1
27.5°	1018.1	1021.1	1033.1	1049.1	1057.1
30°	979.1	984.1	997.1	1015.1	1024.1
32.5°	942.1	946.1	959.1	975.1	984.1
35°	901.1	904.1	915.1	935.1	941.1
37.5°	858.1	861.1	876.1	891.1	898.1
40°	812.1	816.1	829.1	844.1	854.1
42.5°	770.1	772.1	783.1	800.1	809.1
45°	724.1	727.1	738.1	751.1	759.1
47.5°	680.1	679.1	690.1	705.1	711.1
50°	634.1	632.1	641.1	656.1	661.1
52.5°	588.1	585.1	595.1	606.1	610.1
55°	542.1	539.1	543.1	555.1	562.1
57.5°	497.1	492.1	497.1	503.1	509.1
60°	450.1	442.1	448.1	455.1	455.1
62.5°	407.0	398.0	401.0	406.0	409.0
65°	360.0	351.0	352.0	355.0	357.0
67.5°	316.0	307.0	305.0	306.0	307.0
70°	273.0	263.0	259.0	257.0	260.0
72.5°	229.0	219.0	217.0	213.0	214.0
75°	187.0	178.0	172.0	170.0	167.0
77.5°	147.0	139.0	134.0	128.0	127.0
80°	111.0	101.0	97.0	93.0	90.0
82.5°	78.0	69.0	62.0	58.0	55.0
85°	45.0	39.0	34.0	29.0	29.0
87.5°	18.0	14.0	12.0	11.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)