

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: P229897

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.1 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

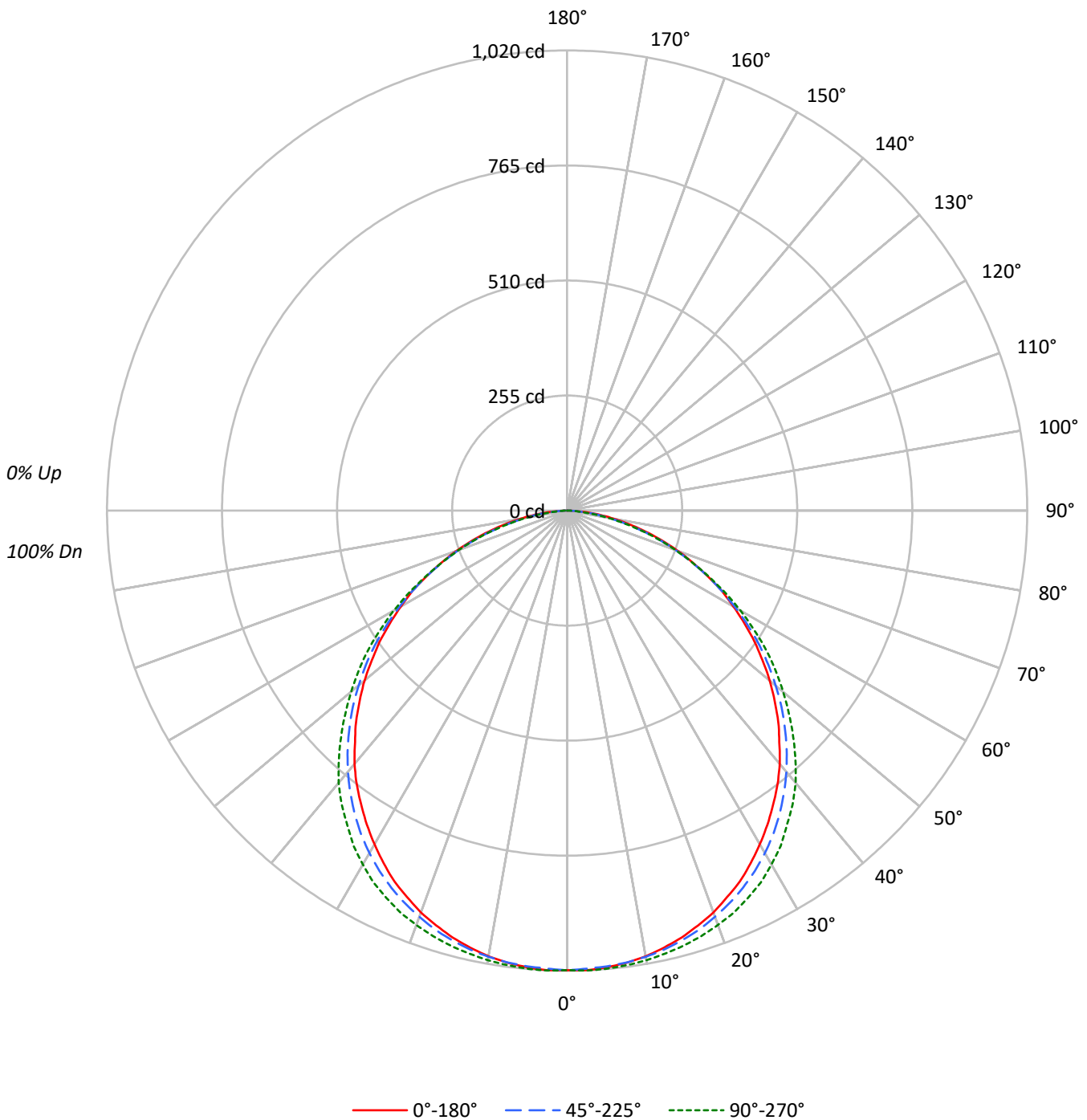
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1560	1560	1560
5°	1563	1559	1567
10°	1560	1562	1574
15°	1554	1563	1583
20°	1545	1562	1593
25°	1532	1559	1601
30°	1511	1551	1602
35°	1488	1535	1589
40°	1466	1511	1575
45°	1434	1479	1535
50°	1398	1438	1489
55°	1355	1389	1439
60°	1303	1320	1360
65°	1243	1243	1256
70°	1169	1147	1145
75°	1066	1002	999
80°	929	834	797
85°	736	578	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	278.8	9.7
20°-30°	426.0	14.8
30°-40°	513.9	17.9
40°-50°	526.8	18.3
50°-60°	464.1	16.2
60°-70°	339.7	11.8
70°-80°	182.6	6.4
80°-90°	42.5	1.5
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°	801.5	27.9
0°-40°	1315.4	45.8
0°-60°	2306.3	80.3
0°-90°	2871.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1015	1014	1017	1019	97
15°	980	981	986	994	998	276
25°	907	909	922	940	948	417
35°	796	800	821	844	850	498
45°	662	661	683	703	709	510
55°	508	505	520	532	539	453
65°	343	337	343	347	346	340
75°	180	172	169	169	169	191
85°	42	37	33	27	26	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.7	1018.7	1018.7	1018.7	1018.7
2.5°	1019.9	1018.1	1016.3	1018.1	1020.5
5°	1016.3	1015.1	1013.9	1016.9	1019.3
7.5°	1010.9	1009.7	1010.3	1014.5	1016.3
10°	1003.1	1003.1	1004.3	1009.1	1012.1
12.5°	992.3	992.9	996.5	1002.5	1005.5
15°	979.8	981.0	985.8	993.5	998.3
17.5°	964.2	967.2	973.8	983.4	988.8
20°	948.1	949.8	958.2	972.0	977.4
22.5°	927.1	930.7	941.5	957.6	964.8
25°	906.8	909.1	922.3	940.3	947.5
27.5°	881.0	884.6	900.8	921.7	929.5
30°	854.1	858.3	876.8	897.2	905.6
32.5°	826.0	831.3	850.5	872.0	881.0
35°	796.0	800.2	821.2	843.9	849.9
37.5°	766.1	767.3	789.4	811.6	821.2
40°	733.2	734.4	755.9	776.9	787.7
42.5°	696.1	699.7	720.6	741.0	749.3
45°	662.0	661.4	682.9	702.7	708.6
47.5°	623.7	624.9	644.6	663.8	667.3
50°	586.5	585.9	603.3	620.1	624.9
52.5°	545.8	545.3	562.6	576.4	582.4
55°	507.5	504.6	520.1	532.1	538.7
57.5°	466.2	462.1	475.8	487.8	490.8
60°	425.5	420.8	430.9	439.9	444.1
62.5°	386.6	380.7	387.2	395.0	395.6
65°	343.0	337.0	343.0	347.1	346.5
67.5°	301.7	295.1	298.1	299.9	299.3
70°	261.0	252.0	256.2	255.0	255.6
72.5°	220.3	213.1	212.5	210.7	212.5
75°	180.2	171.8	169.4	169.4	168.8
77.5°	141.8	133.5	131.1	129.9	128.1
80°	105.3	98.8	94.6	94.0	90.4
82.5°	74.2	65.8	64.6	59.3	55.7
85°	41.9	37.1	32.9	26.9	25.7
87.5°	15.6	13.8	10.8	10.2	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)