

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: P229777

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L830-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2906.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

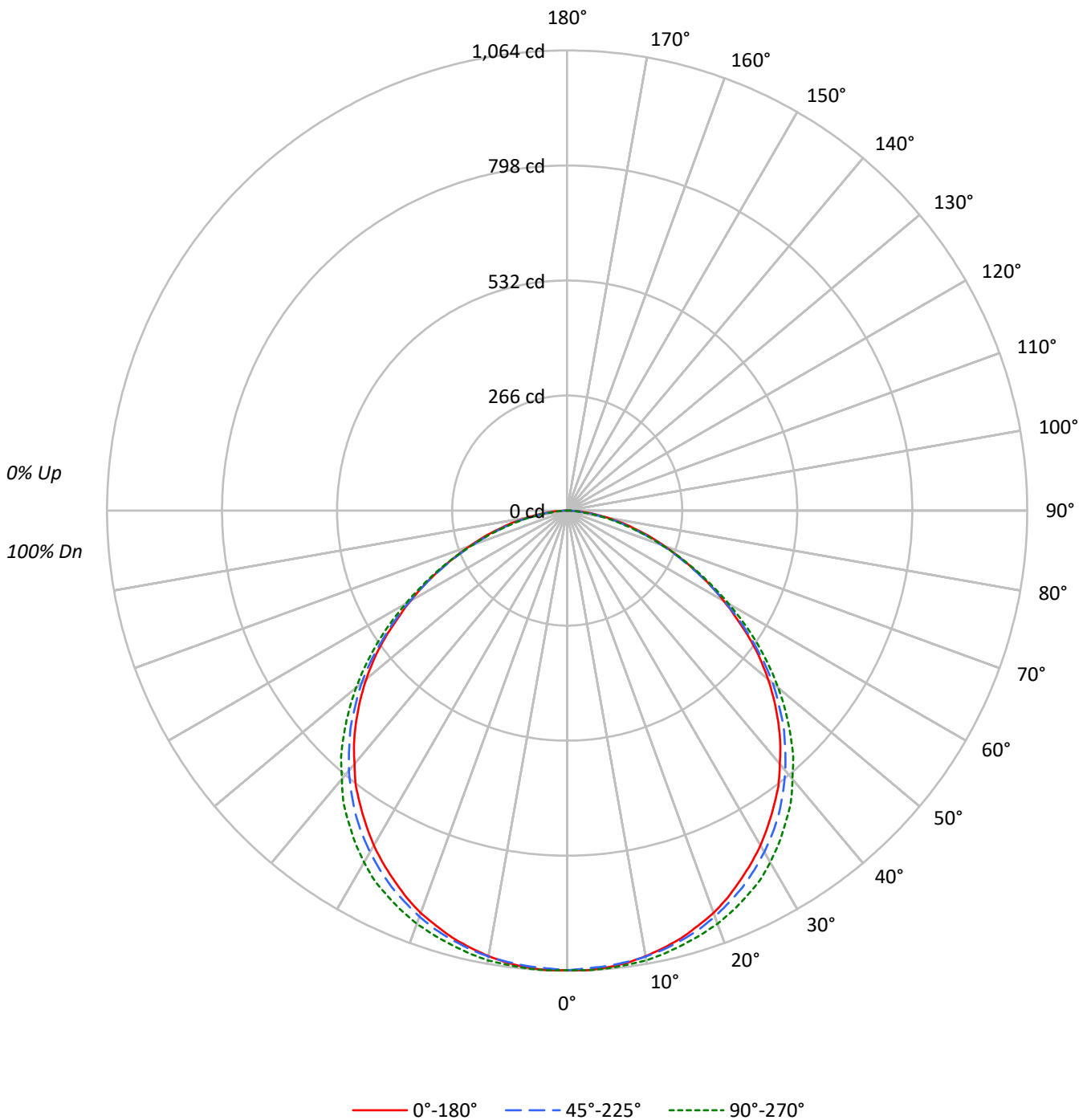
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1628	1628	1628
5°	1631	1625	1634
10°	1627	1629	1643
15°	1622	1629	1647
20°	1614	1628	1657
25°	1597	1623	1662
30°	1581	1612	1661
35°	1558	1598	1647
40°	1530	1569	1620
45°	1495	1533	1581
50°	1445	1479	1518
55°	1375	1392	1434
60°	1283	1290	1324
65°	1179	1171	1199
70°	1071	1042	1047
75°	953	900	894
80°	826	739	720
85°	678	524	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	3.5
10°-20°	290.6	10.0
20°-30°	443.5	15.3
30°-40°	534.7	18.4
40°-50°	545.3	18.8
50°-60°	466.6	16.1
60°-70°	321.4	11.1
70°-80°	164.8	5.7
80°-90°	38.4	1.3
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°	834.9	28.7
0°-40°	1369.5	47.1
0°-60°	2381.4	81.9
0°-90°	2906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1060	1058	1057	1060	1063	101
15°	1023	1022	1028	1035	1038	289
25°	945	948	960	977	983	436
35°	833	837	854	873	881	521
45°	690	691	708	725	730	532
55°	515	512	521	532	537	459
65°	325	318	323	325	331	323
75°	161	154	152	152	151	174
85°	39	34	30	26	23	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1063.8	1061.6	1059.4	1061.6	1063.8
5°	1060.5	1058.3	1057.2	1060.5	1062.7
7.5°	1055.0	1052.8	1052.8	1057.2	1059.4
10°	1046.2	1045.1	1047.3	1051.7	1056.1
12.5°	1035.2	1035.2	1038.5	1044.0	1048.4
15°	1023.0	1021.9	1027.5	1035.2	1038.5
17.5°	1006.5	1007.6	1015.3	1024.2	1028.6
20°	990.0	991.1	998.8	1010.9	1016.4
22.5°	969.0	971.2	980.1	995.5	1001.0
25°	944.8	948.1	960.2	976.7	983.4
27.5°	920.5	923.8	937.1	955.8	964.6
30°	894.1	898.5	911.7	931.5	939.3
32.5°	864.3	867.6	884.1	904.0	911.7
35°	833.4	836.7	854.4	873.1	880.8
37.5°	802.6	802.6	820.2	842.3	850.0
40°	765.1	766.2	784.9	805.9	810.3
42.5°	729.8	729.8	746.3	766.2	773.9
45°	690.1	691.2	707.8	725.4	729.8
47.5°	649.3	649.3	663.7	680.2	684.6
50°	606.3	604.1	620.7	633.9	637.2
52.5°	562.2	558.9	572.2	583.2	587.6
55°	514.8	511.5	521.4	532.5	536.9
57.5°	465.2	460.8	471.8	481.8	484.0
60°	418.9	412.3	421.1	426.6	432.1
62.5°	372.6	364.9	371.5	374.8	379.2
65°	325.2	317.5	323.0	325.2	330.7
67.5°	280.0	274.5	275.6	278.9	281.1
70°	239.2	232.6	232.6	232.6	233.7
72.5°	201.7	191.8	190.7	191.8	191.8
75°	161.0	154.3	152.1	152.1	151.0
77.5°	129.0	120.2	119.1	116.9	114.7
80°	93.7	86.0	83.8	82.7	81.6
82.5°	65.0	58.4	56.2	54.0	50.7
85°	38.6	34.2	29.8	26.5	23.2
87.5°	14.3	13.2	11.0	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)