

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: P229917

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229917
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-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

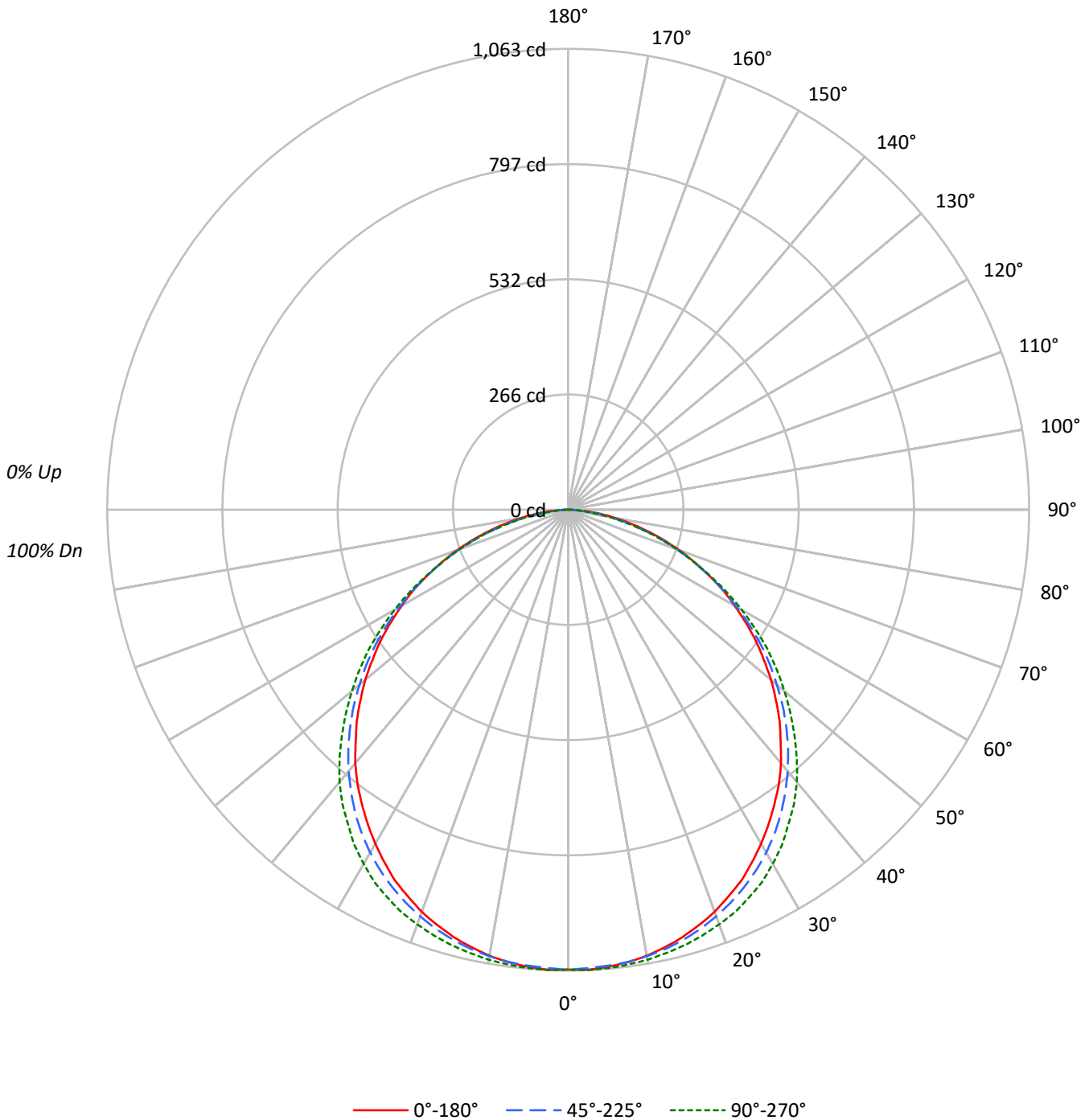
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1625	1625	1625
5°	1627	1623	1632
10°	1625	1627	1639
15°	1618	1628	1649
20°	1609	1627	1659
25°	1596	1623	1668
30°	1573	1615	1668
35°	1550	1599	1655
40°	1527	1574	1640
45°	1493	1541	1599
50°	1456	1497	1551
55°	1412	1447	1498
60°	1358	1375	1417
65°	1295	1295	1308
70°	1217	1195	1192
75°	1110	1044	1040
80°	968	869	830
85°	766	603	471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	3.4
10°-20°	290.4	9.7
20°-30°	443.7	14.8
30°-40°	535.2	17.9
40°-50°	548.6	18.3
50°-60°	483.3	16.2
60°-70°	353.7	11.8
70°-80°	190.1	6.4
80°-90°	44.3	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°	834.7	27.9
0°-40°	1369.9	45.8
0°-60°	2401.9	80.3
0°-90°	2990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1058	1057	1056	1059	1062	101
15°	1020	1022	1027	1035	1040	288
25°	944	947	960	979	987	434
35°	829	833	855	879	885	519
45°	689	689	711	732	738	531
55°	529	526	542	554	561	472
65°	357	351	357	362	361	354
75°	188	179	176	176	176	199
85°	44	39	34	28	27	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1062.1	1060.3	1058.4	1060.3	1062.8
5°	1058.4	1057.2	1055.9	1059.0	1061.5
7.5°	1052.8	1051.6	1052.2	1056.5	1058.4
10°	1044.7	1044.7	1045.9	1050.9	1054.0
12.5°	1033.5	1034.1	1037.8	1044.1	1047.2
15°	1020.4	1021.6	1026.6	1034.7	1039.7
17.5°	1004.2	1007.3	1014.2	1024.1	1029.7
20°	987.3	989.2	997.9	1012.3	1017.9
22.5°	965.5	969.3	980.5	997.3	1004.8
25°	944.3	946.8	960.5	979.2	986.7
27.5°	917.5	921.3	938.1	959.9	968.0
30°	889.5	893.8	913.2	934.4	943.1
32.5°	860.2	865.8	885.7	908.2	917.5
35°	829.0	833.4	855.2	878.9	885.1
37.5°	797.9	799.1	822.2	845.2	855.2
40°	763.6	764.8	787.3	809.1	820.3
42.5°	724.9	728.7	750.5	771.7	780.4
45°	689.4	688.8	711.2	731.8	738.0
47.5°	649.5	650.8	671.3	691.3	695.0
50°	610.9	610.2	628.3	645.8	650.8
52.5°	568.5	567.9	585.9	600.3	606.5
55°	528.6	525.5	541.7	554.1	561.0
57.5°	485.6	481.2	495.5	508.0	511.1
60°	443.2	438.2	448.8	458.1	462.5
62.5°	402.7	396.4	403.3	411.4	412.0
65°	357.2	350.9	357.2	361.5	360.9
67.5°	314.2	307.3	310.4	312.3	311.7
70°	271.8	262.4	266.8	265.5	266.2
72.5°	229.4	221.9	221.3	219.4	221.3
75°	187.6	178.9	176.4	176.4	175.8
77.5°	147.7	139.0	136.5	135.3	133.4
80°	109.7	102.8	98.5	97.9	94.1
82.5°	77.3	68.6	67.3	61.7	58.0
85°	43.6	38.6	34.3	28.0	26.8
87.5°	16.2	14.3	11.2	10.6	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)