

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: P229817

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229817
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-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2607.0 lumens
Efficiency: N/A
Efficacy: 98.4 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

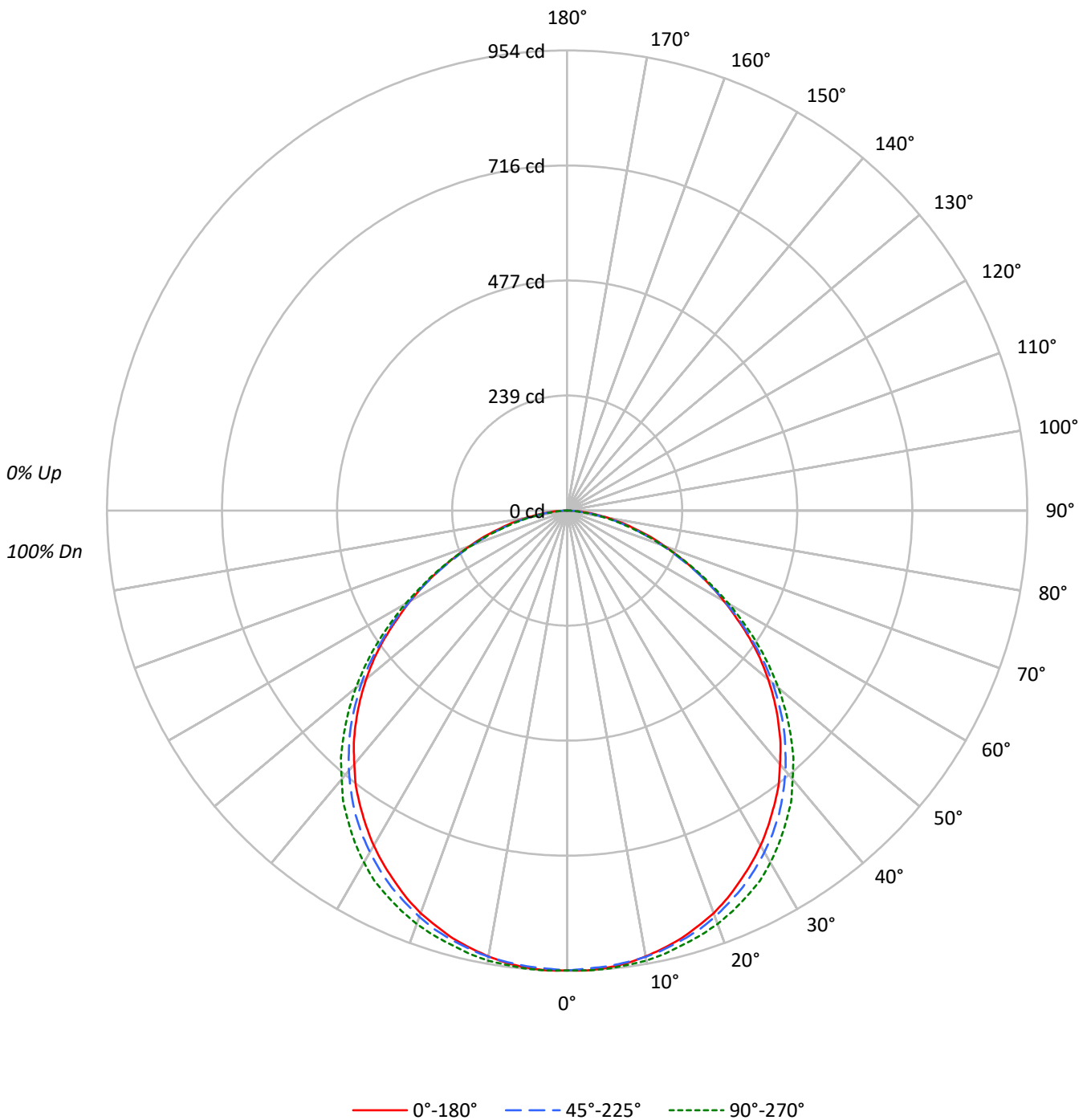
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1460	1460	1460
5°	1463	1458	1466
10°	1460	1461	1474
15°	1455	1462	1477
20°	1448	1460	1486
25°	1432	1456	1491
30°	1419	1447	1490
35°	1398	1433	1478
40°	1372	1408	1453
45°	1341	1375	1418
50°	1296	1327	1362
55°	1233	1249	1286
60°	1151	1157	1188
65°	1058	1050	1075
70°	961	935	939
75°	855	808	802
80°	742	663	646
85°	608	469	366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.5
10°-20°	260.7	10.0
20°-30°	397.9	15.3
30°-40°	479.7	18.4
40°-50°	489.2	18.8
50°-60°	418.6	16.1
60°-70°	288.4	11.1
70°-80°	147.8	5.7
80°-90°	34.4	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°	749.0	28.7
0°-40°	1228.6	47.1
0°-60°	2136.4	81.9
0°-90°	2607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	951	949	948	951	953	90
15°	918	917	922	929	932	259
25°	848	850	861	876	882	391
35°	748	751	766	783	790	468
45°	619	620	635	651	655	477
55°	462	459	468	478	482	412
65°	292	285	290	292	297	290
75°	144	138	136	136	136	156
85°	35	31	27	24	21	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.4	953.4	953.4	953.4	953.4
2.5°	954.4	952.4	950.4	952.4	954.4
5°	951.4	949.4	948.4	951.4	953.4
7.5°	946.5	944.5	944.5	948.4	950.4
10°	938.6	937.6	939.5	943.5	947.5
12.5°	928.7	928.7	931.6	936.6	940.5
15°	917.8	916.8	921.7	928.7	931.6
17.5°	903.0	903.9	910.9	918.8	922.7
20°	888.1	889.1	896.0	906.9	911.9
22.5°	869.3	871.3	879.2	893.1	898.0
25°	847.6	850.5	861.4	876.2	882.2
27.5°	825.8	828.8	840.6	857.5	865.4
30°	802.1	806.0	817.9	835.7	842.6
32.5°	775.4	778.3	793.2	811.0	817.9
35°	747.7	750.6	766.5	783.3	790.2
37.5°	720.0	720.0	735.8	755.6	762.5
40°	686.4	687.4	704.2	723.0	726.9
42.5°	654.7	654.7	669.5	687.4	694.3
45°	619.1	620.1	634.9	650.8	654.7
47.5°	582.5	582.5	595.4	610.2	614.2
50°	543.9	542.0	556.8	568.7	571.6
52.5°	504.4	501.4	513.3	523.2	527.1
55°	461.9	458.9	467.8	477.7	481.6
57.5°	417.4	413.4	423.3	432.2	434.2
60°	375.8	369.9	377.8	382.7	387.7
62.5°	334.3	327.4	333.3	336.3	340.2
65°	291.8	284.8	289.8	291.8	296.7
67.5°	251.2	246.3	247.2	250.2	252.2
70°	214.6	208.7	208.7	208.7	209.7
72.5°	181.0	172.1	171.1	172.1	172.1
75°	144.4	138.5	136.5	136.5	135.5
77.5°	115.7	107.8	106.8	104.8	102.9
80°	84.1	77.1	75.2	74.2	73.2
82.5°	58.4	52.4	50.4	48.5	45.5
85°	34.6	30.7	26.7	23.7	20.8
87.5°	12.9	11.9	9.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)