

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: P229819

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229819
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-LD5-45-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: 3246.0 lumens
Efficiency: N/A
Efficacy: 95.5 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

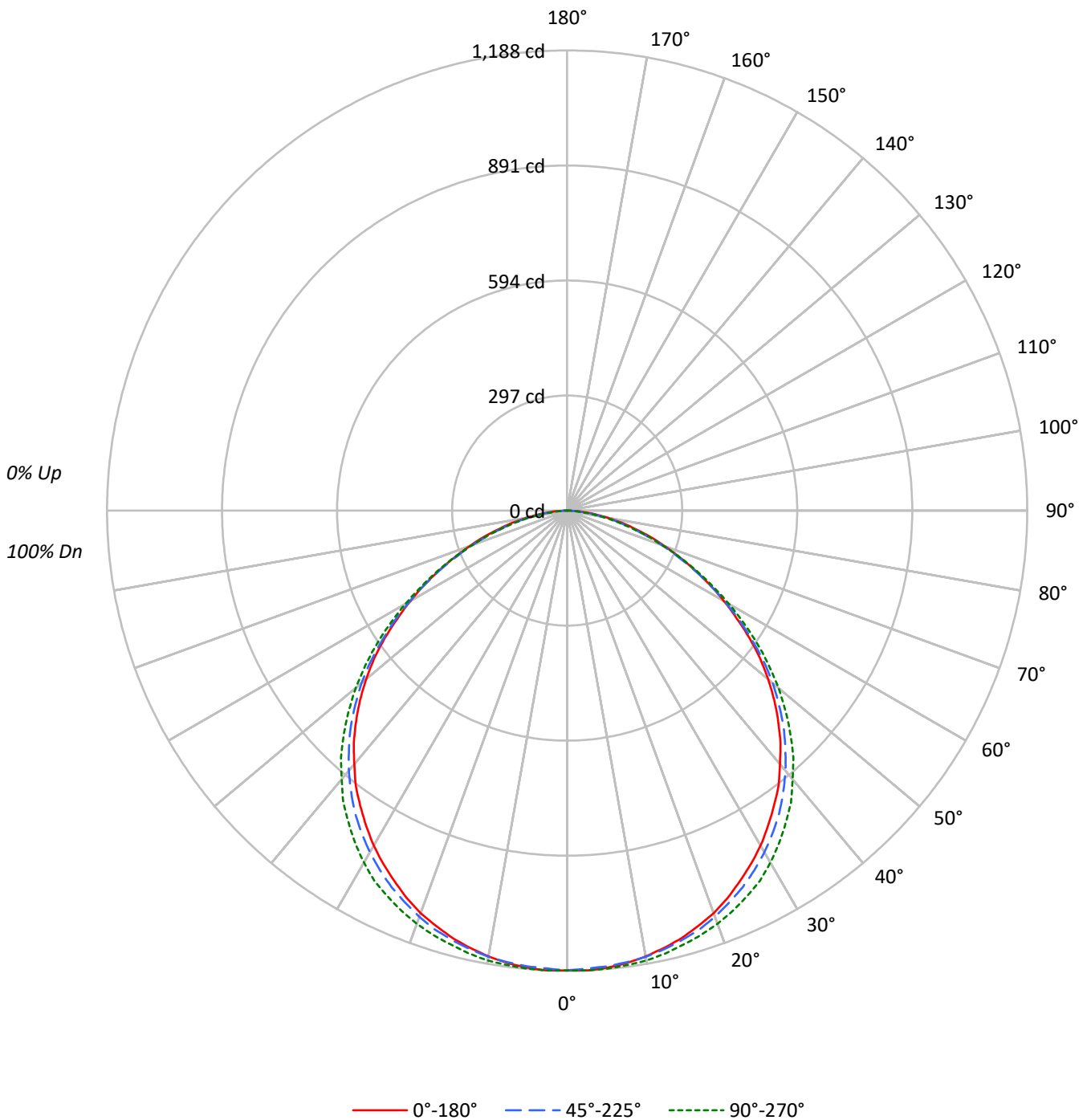
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1818	1818	1818
5°	1821	1816	1825
10°	1818	1819	1835
15°	1812	1820	1839
20°	1802	1819	1851
25°	1783	1813	1856
30°	1766	1801	1856
35°	1741	1784	1840
40°	1709	1753	1810
45°	1670	1713	1766
50°	1614	1652	1696
55°	1536	1555	1601
60°	1433	1441	1479
65°	1317	1308	1339
70°	1197	1163	1169
75°	1064	1005	998
80°	924	826	804
85°	757	583	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.5
10°-20°	324.6	10.0
20°-30°	495.4	15.3
30°-40°	597.2	18.4
40°-50°	609.1	18.8
50°-60°	521.2	16.1
60°-70°	359.0	11.1
70°-80°	184.1	5.7
80°-90°	42.8	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°	932.5	28.7
0°-40°	1529.8	47.1
0°-60°	2660.1	81.9
0°-90°	3246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1185	1182	1181	1185	1187	113
15°	1143	1142	1148	1156	1160	322
25°	1055	1059	1073	1091	1098	487
35°	931	935	954	975	984	582
45°	771	772	791	810	815	594
55°	575	571	582	595	600	513
65°	363	355	361	363	369	361
75°	180	172	170	170	169	194
85°	43	38	33	30	26	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.1	1187.1	1187.1	1187.1	1187.1
2.5°	1188.3	1185.8	1183.4	1185.8	1188.3
5°	1184.6	1182.1	1180.9	1184.6	1187.1
7.5°	1178.5	1176.0	1176.0	1180.9	1183.4
10°	1168.6	1167.4	1169.8	1174.8	1179.7
12.5°	1156.3	1156.3	1160.0	1166.1	1171.1
15°	1142.7	1141.5	1147.7	1156.3	1160.0
17.5°	1124.3	1125.5	1134.1	1144.0	1148.9
20°	1105.8	1107.0	1115.7	1129.2	1135.4
22.5°	1082.4	1084.9	1094.7	1112.0	1118.1
25°	1055.3	1059.0	1072.6	1091.0	1098.4
27.5°	1028.2	1031.9	1046.7	1067.6	1077.5
30°	998.7	1003.6	1018.4	1040.5	1049.2
32.5°	965.4	969.1	987.6	1009.8	1018.4
35°	930.9	934.6	954.3	975.3	983.9
37.5°	896.5	896.5	916.2	940.8	949.4
40°	854.6	855.8	876.8	900.2	905.1
42.5°	815.2	815.2	833.7	855.8	864.4
45°	770.9	772.1	790.6	810.3	815.2
47.5°	725.3	725.3	741.3	759.8	764.7
50°	677.3	674.8	693.3	708.1	711.8
52.5°	628.0	624.3	639.1	651.4	656.3
55°	575.1	571.4	582.5	594.8	599.7
57.5°	519.7	514.7	527.0	538.1	540.6
60°	467.9	460.5	470.4	476.6	482.7
62.5°	416.2	407.6	415.0	418.7	423.6
65°	363.3	354.6	360.8	363.3	369.4
67.5°	312.8	306.6	307.9	311.5	314.0
70°	267.2	259.8	259.8	259.8	261.1
72.5°	225.3	214.3	213.0	214.3	214.3
75°	179.8	172.4	169.9	169.9	168.7
77.5°	144.1	134.2	133.0	130.5	128.1
80°	104.7	96.0	93.6	92.4	91.1
82.5°	72.7	65.3	62.8	60.3	56.6
85°	43.1	38.2	33.2	29.6	25.9
87.5°	16.0	14.8	12.3	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)