

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: P229809

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229809
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-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3129.0 lumens
Efficiency: N/A
Efficacy: 92.0 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

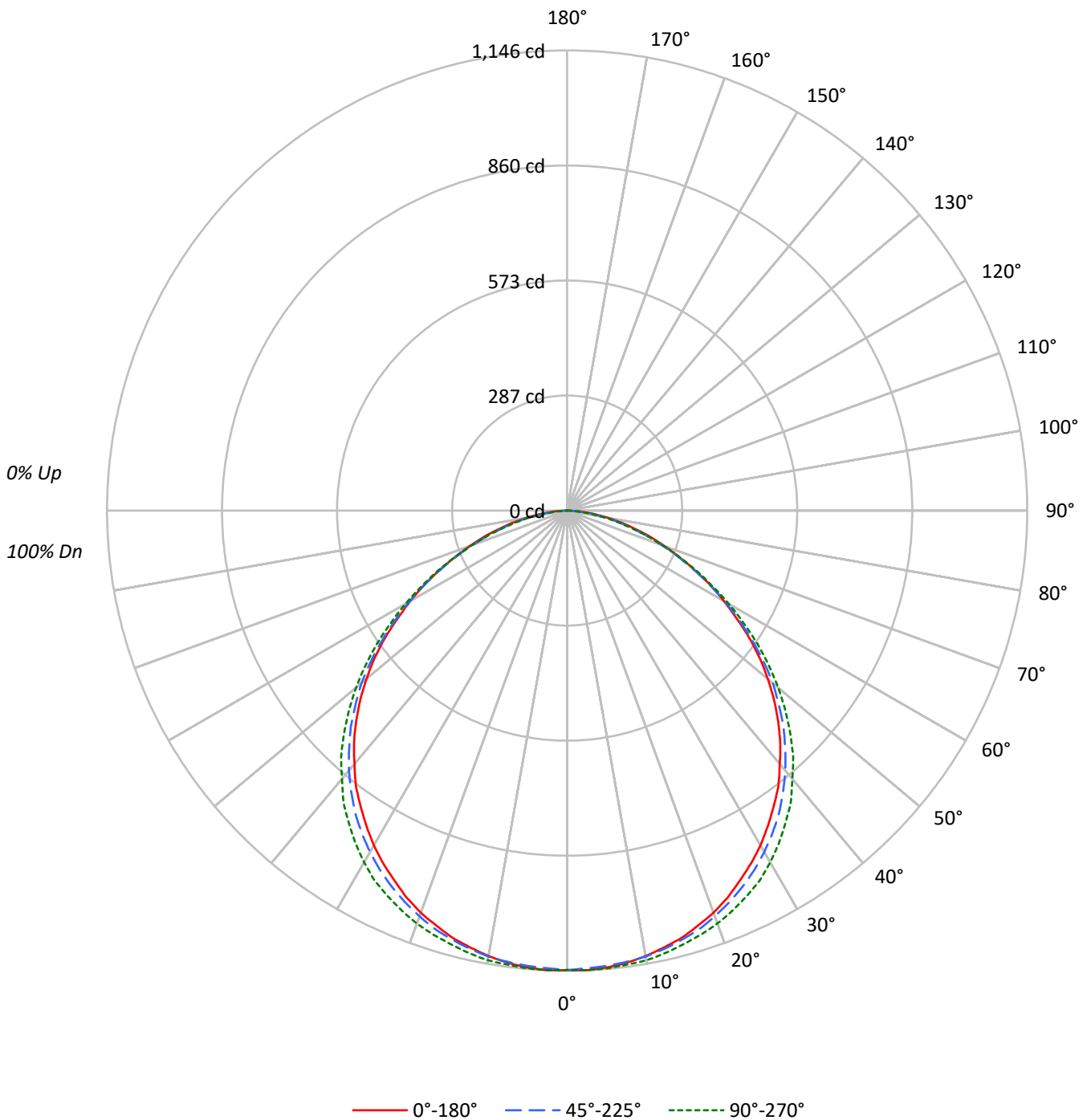
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1753	1753	1753
5°	1756	1750	1759
10°	1752	1754	1769
15°	1747	1754	1773
20°	1737	1753	1784
25°	1719	1747	1789
30°	1703	1736	1789
35°	1678	1720	1773
40°	1647	1690	1745
45°	1610	1651	1702
50°	1556	1592	1635
55°	1480	1499	1544
60°	1382	1389	1425
65°	1269	1261	1291
70°	1154	1122	1127
75°	1026	969	962
80°	890	796	774
85°	729	562	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.5
10°-20°	312.9	10.0
20°-30°	477.5	15.3
30°-40°	575.7	18.4
40°-50°	587.1	18.8
50°-60°	502.4	16.1
60°-70°	346.1	11.1
70°-80°	177.4	5.7
80°-90°	41.3	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°	898.9	28.7
0°-40°	1474.6	47.1
0°-60°	2564.2	81.9
0°-90°	3129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1142	1140	1138	1142	1144	109
15°	1102	1100	1106	1115	1118	311
25°	1017	1021	1034	1052	1059	469
35°	897	901	920	940	948	561
45°	743	744	762	781	786	573
55°	554	551	562	573	578	495
65°	350	342	348	350	356	348
75°	173	166	164	164	163	187
85°	42	37	32	28	25	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.3	1144.3	1144.3	1144.3	1144.3
2.5°	1145.5	1143.1	1140.7	1143.1	1145.5
5°	1141.9	1139.5	1138.4	1141.9	1144.3
7.5°	1136.0	1133.6	1133.6	1138.4	1140.7
10°	1126.5	1125.3	1127.7	1132.4	1137.2
12.5°	1114.6	1114.6	1118.2	1124.1	1128.9
15°	1101.6	1100.4	1106.3	1114.6	1118.2
17.5°	1083.7	1084.9	1093.2	1102.7	1107.5
20°	1065.9	1067.1	1075.4	1088.5	1094.4
22.5°	1043.4	1045.8	1055.3	1071.9	1077.8
25°	1017.3	1020.8	1033.9	1051.7	1058.8
27.5°	991.2	994.7	1009.0	1029.1	1038.6
30°	962.7	967.4	981.7	1003.0	1011.3
32.5°	930.6	934.2	952.0	973.4	981.7
35°	897.4	900.9	919.9	940.1	948.4
37.5°	864.2	864.2	883.1	906.9	915.2
40°	823.8	825.0	845.2	867.7	872.5
42.5°	785.8	785.8	803.6	825.0	833.3
45°	743.1	744.3	762.1	781.1	785.8
47.5°	699.2	699.2	714.6	732.4	737.1
50°	652.9	650.5	668.3	682.5	686.1
52.5°	605.4	601.8	616.1	627.9	632.7
55°	554.3	550.8	561.5	573.3	578.1
57.5°	500.9	496.2	508.0	518.7	521.1
60°	451.1	443.9	453.4	459.4	465.3
62.5°	401.2	392.9	400.0	403.6	408.3
65°	350.2	341.9	347.8	350.2	356.1
67.5°	301.5	295.6	296.8	300.3	302.7
70°	257.6	250.5	250.5	250.5	251.6
72.5°	217.2	206.5	205.4	206.5	206.5
75°	173.3	166.2	163.8	163.8	162.6
77.5°	138.9	129.4	128.2	125.8	123.5
80°	100.9	92.6	90.2	89.0	87.8
82.5°	70.0	62.9	60.5	58.2	54.6
85°	41.5	36.8	32.0	28.5	24.9
87.5°	15.4	14.2	11.9	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)