

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: P229857

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3606.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

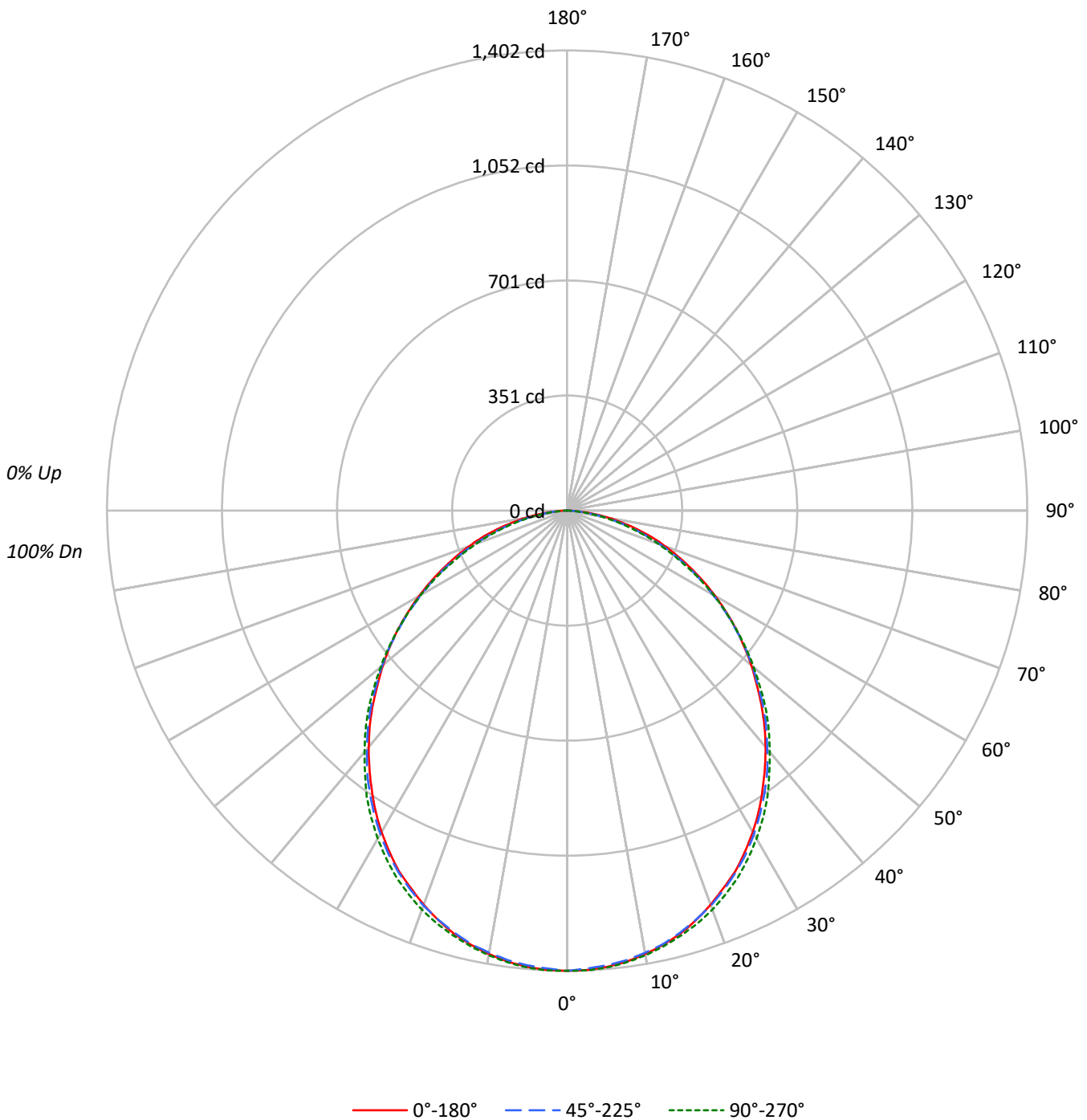
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2148	2148	2148
5°	2145	2138	2149
10°	2134	2127	2140
15°	2116	2110	2125
20°	2083	2087	2109
25°	2049	2055	2082
30°	2000	2013	2041
35°	1941	1960	1990
40°	1880	1896	1919
45°	1813	1831	1855
50°	1746	1754	1768
55°	1677	1668	1674
60°	1597	1572	1579
65°	1507	1473	1448
70°	1425	1348	1317
75°	1311	1196	1155
80°	1155	1013	952
85°	909	706	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.7
10°-20°	376.3	10.4
20°-30°	560.8	15.6
30°-40°	655.6	18.2
40°-50°	651.1	18.1
50°-60°	559.1	15.5
60°-70°	402.8	11.2
70°-80°	216.8	6.0
80°-90°	51.1	1.4
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°	1069.4	29.7
0°-40°	1725.1	47.8
0°-60°	2935.3	81.4
0°-90°	3606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1395	1394	1391	1395	1398	132
15°	1334	1331	1331	1339	1340	376
25°	1213	1208	1216	1229	1232	557
35°	1038	1037	1048	1060	1064	649
45°	837	835	845	852	857	646
55°	628	622	625	628	627	561
65°	416	409	406	403	400	413
75°	222	208	202	196	195	235
85°	52	47	40	32	30	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.1	1402.1	1402.1	1402.1	1402.1
2.5°	1400.9	1399.8	1396.3	1400.9	1402.1
5°	1395.2	1394.0	1390.6	1395.2	1397.5
7.5°	1386.0	1383.7	1381.4	1386.0	1388.3
10°	1372.2	1369.9	1367.6	1373.4	1375.7
12.5°	1355.0	1352.7	1352.7	1357.3	1359.6
15°	1334.3	1330.9	1330.9	1338.9	1340.1
17.5°	1307.9	1305.6	1306.8	1316.0	1319.4
20°	1278.1	1276.9	1280.4	1290.7	1294.1
22.5°	1244.8	1243.6	1249.4	1262.0	1264.3
25°	1212.6	1208.0	1216.1	1228.7	1232.1
27.5°	1172.4	1169.0	1179.3	1190.8	1194.2
30°	1131.1	1127.6	1138.0	1150.6	1154.0
32.5°	1086.3	1084.0	1094.3	1107.0	1110.4
35°	1038.1	1036.9	1048.4	1059.9	1064.5
37.5°	989.8	988.7	1001.3	1010.5	1011.7
40°	940.5	938.2	948.5	958.8	960.0
42.5°	889.9	886.5	898.0	906.0	909.5
45°	837.1	834.8	845.2	852.0	856.6
47.5°	783.1	783.1	788.9	796.9	798.1
50°	732.6	729.2	736.1	740.7	741.8
52.5°	679.8	676.4	682.1	683.2	685.5
55°	628.1	622.4	624.7	628.1	627.0
57.5°	574.2	565.0	569.6	569.6	571.9
60°	521.3	513.3	513.3	513.3	515.6
62.5°	468.5	460.5	460.5	459.3	458.2
65°	415.7	408.8	406.5	403.1	399.6
67.5°	365.2	357.1	352.5	347.9	344.5
70°	318.1	304.3	300.9	294.0	294.0
72.5°	271.0	257.2	250.3	245.7	244.6
75°	221.6	207.8	202.1	196.4	195.2
77.5°	173.4	164.2	155.0	150.4	148.1
80°	130.9	122.9	114.8	106.8	107.9
82.5°	89.6	81.5	75.8	68.9	66.6
85°	51.7	47.1	40.2	32.2	29.9
87.5°	21.8	16.1	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)