

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: P229835

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229835
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-LD5-80-RDP-UNV-L940-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5902.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

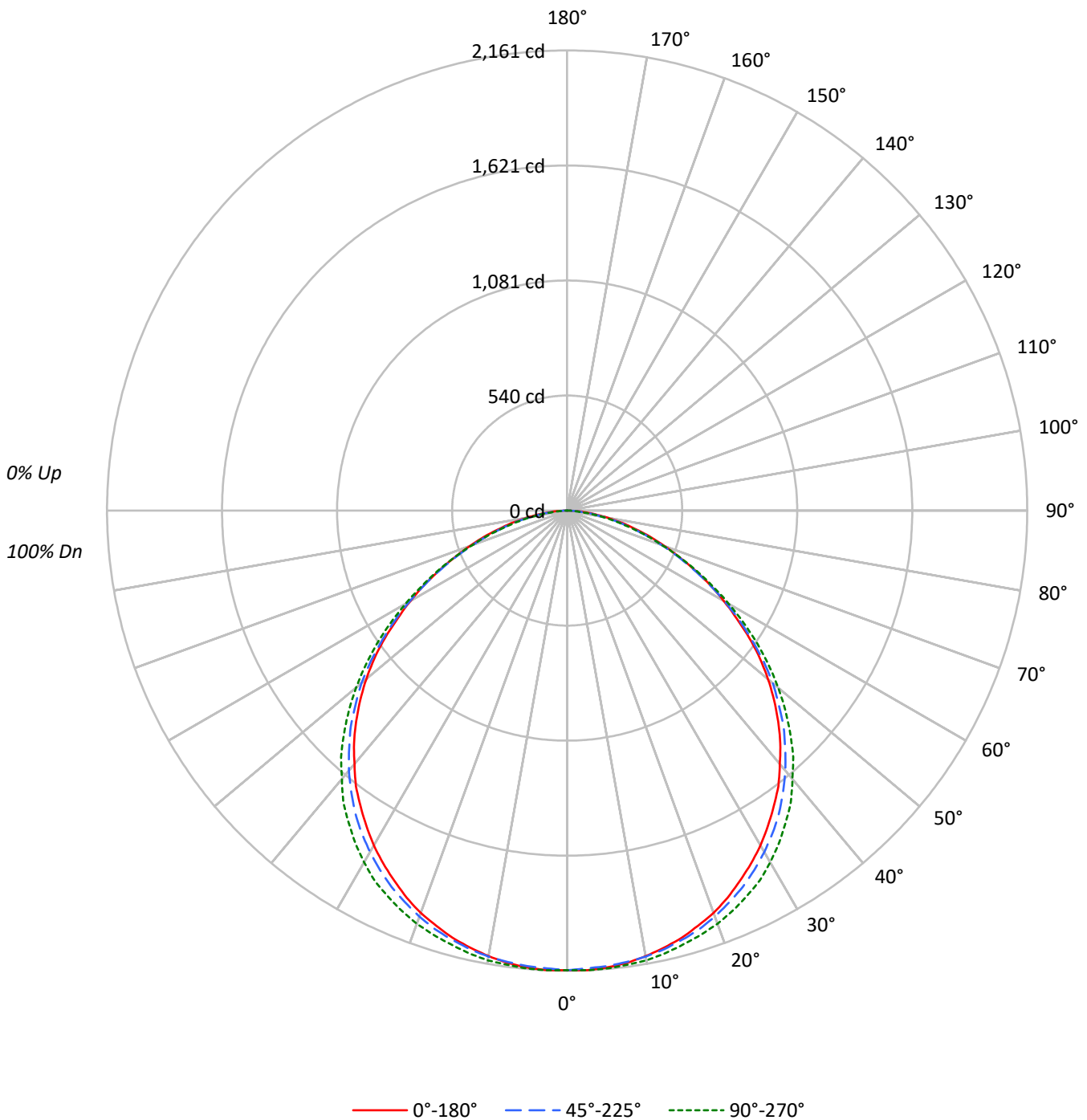
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3306	3306	3306
5°	3312	3301	3319
10°	3305	3308	3336
15°	3295	3309	3344
20°	3277	3306	3365
25°	3243	3296	3375
30°	3211	3275	3374
35°	3165	3245	3345
40°	3107	3188	3290
45°	3036	3114	3211
50°	2934	3004	3084
55°	2792	2828	2912
60°	2606	2620	2689
65°	2394	2377	2434
70°	2176	2116	2126
75°	1935	1829	1815
80°	1679	1501	1462
85°	1378	1063	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.5
10°-20°	590.1	10.0
20°-30°	900.8	15.3
30°-40°	1085.9	18.4
40°-50°	1107.4	18.8
50°-60°	947.7	16.1
60°-70°	652.8	11.1
70°-80°	334.7	5.7
80°-90°	77.9	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°	1695.6	28.7
0°-40°	2781.5	47.1
0°-60°	4836.6	81.9
0°-90°	5902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2154	2149	2147	2154	2158	205
15°	2078	2076	2087	2102	2109	586
25°	1919	1926	1950	1984	1997	885
35°	1693	1699	1735	1773	1789	1059
45°	1402	1404	1437	1473	1482	1080
55°	1046	1039	1059	1081	1090	933
65°	660	645	656	660	672	656
75°	327	314	309	309	307	352
85°	78	69	60	54	47	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.4	2158.4	2158.4	2158.4	2158.4
2.5°	2160.6	2156.1	2151.7	2156.1	2160.6
5°	2153.9	2149.4	2147.2	2153.9	2158.4
7.5°	2142.7	2138.2	2138.2	2147.2	2151.7
10°	2124.8	2122.6	2127.0	2136.0	2144.9
12.5°	2102.4	2102.4	2109.1	2120.3	2129.3
15°	2077.8	2075.5	2086.7	2102.4	2109.1
17.5°	2044.2	2046.4	2062.1	2080.0	2089.0
20°	2010.6	2012.8	2028.5	2053.2	2064.3
22.5°	1968.1	1972.5	1990.5	2021.8	2033.0
25°	1918.8	1925.5	1950.2	1983.7	1997.2
27.5°	1869.6	1876.3	1903.1	1941.2	1959.1
30°	1815.8	1824.8	1851.6	1891.9	1907.6
32.5°	1755.4	1762.1	1795.7	1836.0	1851.6
35°	1692.7	1699.4	1735.2	1773.3	1789.0
37.5°	1630.0	1630.0	1665.8	1710.6	1726.3
40°	1553.9	1556.1	1594.2	1636.7	1645.7
42.5°	1482.2	1482.2	1515.8	1556.1	1571.8
45°	1401.6	1403.8	1437.4	1473.3	1482.2
47.5°	1318.8	1318.8	1347.9	1381.5	1390.4
50°	1231.4	1227.0	1260.5	1287.4	1294.1
52.5°	1141.9	1135.2	1162.0	1184.4	1193.4
55°	1045.6	1038.9	1059.0	1081.4	1090.4
57.5°	944.9	935.9	958.3	978.4	982.9
60°	850.8	837.4	855.3	866.5	877.7
62.5°	756.8	741.1	754.5	761.3	770.2
65°	660.5	644.8	656.0	660.5	671.7
67.5°	568.7	557.5	559.7	566.5	570.9
70°	485.9	472.4	472.4	472.4	474.7
72.5°	409.7	389.6	387.3	389.6	389.6
75°	326.9	313.5	309.0	309.0	306.7
77.5°	262.0	244.0	241.8	237.3	232.9
80°	190.3	174.6	170.2	167.9	165.7
82.5°	132.1	118.7	114.2	109.7	103.0
85°	78.4	69.4	60.5	53.7	47.0
87.5°	29.1	26.9	22.4	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)