

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: P229822

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229822
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-LD5-60-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: 4283.0 lumens
Efficiency: N/A
Efficacy: 89.8 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

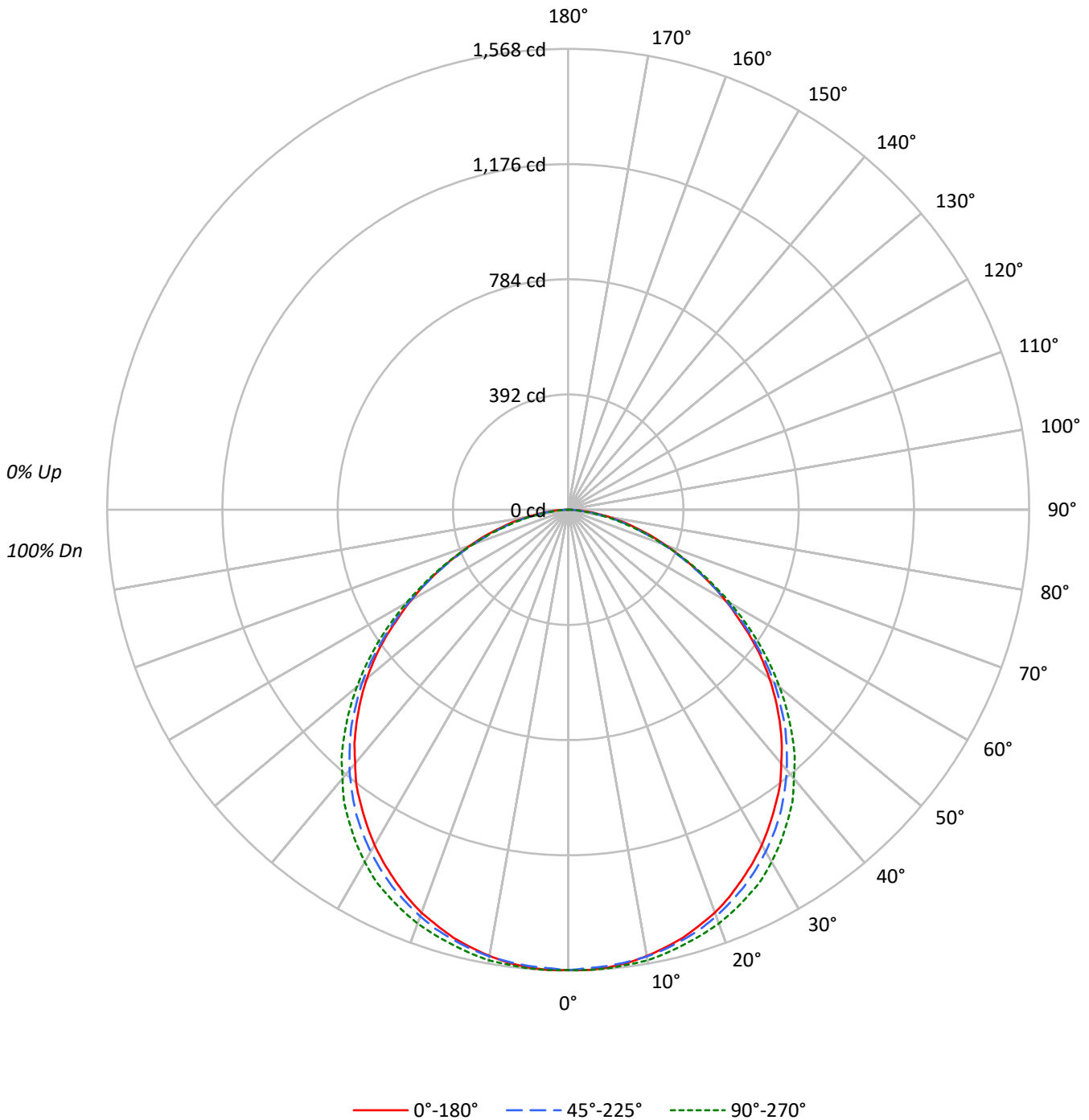
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2399	2399	2399
5°	2403	2396	2408
10°	2398	2401	2421
15°	2391	2401	2427
20°	2378	2399	2442
25°	2353	2392	2449
30°	2331	2376	2448
35°	2297	2354	2427
40°	2255	2313	2388
45°	2203	2259	2330
50°	2129	2180	2238
55°	2026	2052	2113
60°	1891	1901	1951
65°	1737	1725	1766
70°	1579	1535	1543
75°	1404	1327	1317
80°	1218	1089	1060
85°	1000	771	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.5
10°-20°	428.2	10.0
20°-30°	653.7	15.3
30°-40°	788.0	18.4
40°-50°	803.6	18.8
50°-60°	687.8	16.1
60°-70°	473.7	11.1
70°-80°	242.9	5.7
80°-90°	56.5	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°	1230.4	28.7
0°-40°	2018.5	47.1
0°-60°	3509.9	81.9
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1563	1560	1558	1563	1566	149
15°	1508	1506	1514	1526	1531	425
25°	1392	1397	1415	1440	1449	642
35°	1228	1233	1259	1287	1298	768
45°	1017	1019	1043	1069	1076	784
55°	759	754	768	785	791	677
65°	479	468	476	479	487	476
75°	237	228	224	224	223	256
85°	57	50	44	39	34	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.3	1566.3	1566.3	1566.3	1566.3
2.5°	1567.9	1564.7	1561.4	1564.7	1567.9
5°	1563.1	1559.8	1558.2	1563.1	1566.3
7.5°	1554.9	1551.7	1551.7	1558.2	1561.4
10°	1541.9	1540.3	1543.6	1550.1	1556.6
12.5°	1525.7	1525.7	1530.6	1538.7	1545.2
15°	1507.8	1506.2	1514.3	1525.7	1530.6
17.5°	1483.4	1485.1	1496.4	1509.4	1515.9
20°	1459.1	1460.7	1472.1	1489.9	1498.1
22.5°	1428.2	1431.5	1444.4	1467.2	1475.3
25°	1392.5	1397.3	1415.2	1439.6	1449.3
27.5°	1356.7	1361.6	1381.1	1408.7	1421.7
30°	1317.7	1324.2	1343.7	1373.0	1384.3
32.5°	1273.8	1278.7	1303.1	1332.3	1343.7
35°	1228.4	1233.2	1259.2	1286.8	1298.2
37.5°	1182.9	1182.9	1208.9	1241.3	1252.7
40°	1127.6	1129.2	1156.9	1187.7	1194.2
42.5°	1075.6	1075.6	1100.0	1129.2	1140.6
45°	1017.1	1018.8	1043.1	1069.1	1075.6
47.5°	957.0	957.0	978.1	1002.5	1009.0
50°	893.6	890.4	914.8	934.3	939.1
52.5°	828.6	823.8	843.3	859.5	866.0
55°	758.8	753.9	768.5	784.8	791.3
57.5°	685.7	679.2	695.4	710.0	713.3
60°	617.4	607.7	620.7	628.8	636.9
62.5°	549.2	537.8	547.6	552.4	558.9
65°	479.3	467.9	476.1	479.3	487.4
67.5°	412.7	404.6	406.2	411.1	414.3
70°	352.6	342.8	342.8	342.8	344.5
72.5°	297.3	282.7	281.1	282.7	282.7
75°	237.2	227.5	224.2	224.2	222.6
77.5°	190.1	177.1	175.5	172.2	169.0
80°	138.1	126.7	123.5	121.9	120.2
82.5°	95.9	86.1	82.9	79.6	74.7
85°	56.9	50.4	43.9	39.0	34.1
87.5°	21.1	19.5	16.2	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)