

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: P295973

Luminaire Tested: **24RLN-LD5-50-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3883.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

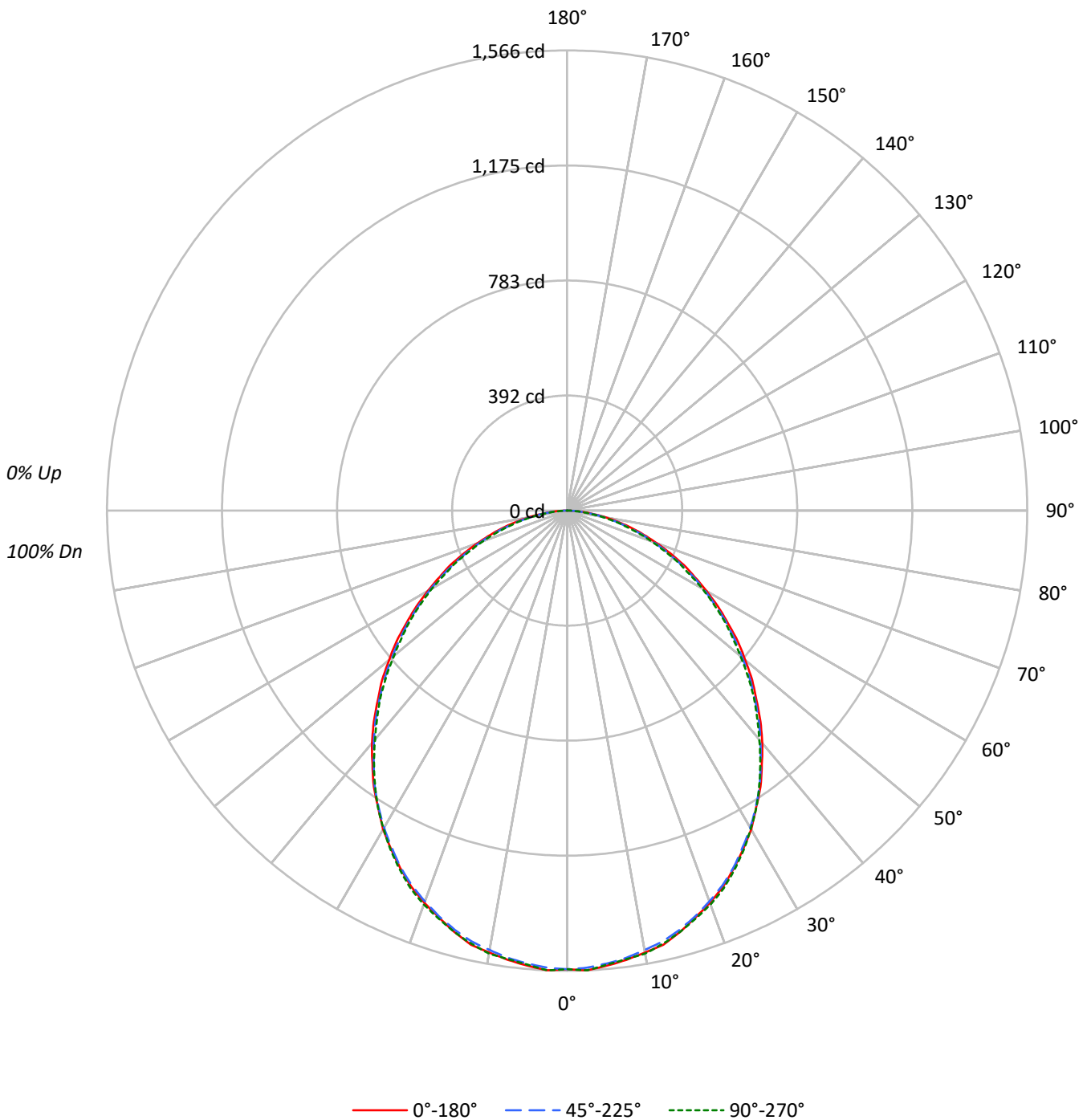
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2100	2100	2100
5°	2100	2090	2095
10°	2086	2074	2091
15°	2068	2057	2068
20°	2034	2027	2043
25°	1994	1990	2001
30°	1946	1936	1942
35°	1885	1877	1872
40°	1815	1798	1787
45°	1733	1716	1709
50°	1654	1628	1610
55°	1566	1543	1528
60°	1473	1446	1429
65°	1392	1340	1328
70°	1276	1227	1203
75°	1172	1101	1055
80°	1029	961	903
85°	832	773	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.8
10°-20°	417.5	10.8
20°-30°	617.6	15.9
30°-40°	712.8	18.4
40°-50°	696.1	17.9
50°-60°	587.8	15.1
60°-70°	418.7	10.8
70°-80°	226.7	5.8
80°-90°	58.5	1.5
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°	1182.4	30.4
0°-40°	1895.1	48.8
0°-60°	3179.1	81.9
0°-90°	3883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1555	1555	1547	1551	1551	148
15°	1484	1478	1477	1483	1484	418
25°	1343	1335	1340	1345	1348	618
35°	1148	1139	1142	1139	1140	716
45°	911	903	902	898	898	704
55°	668	659	658	651	651	599
65°	437	428	421	416	417	431
75°	226	218	212	207	203	239
85°	54	53	50	44	43	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.9	1560.9	1560.9	1560.9	1560.9
2.5°	1565.9	1559.6	1557.1	1558.4	1565.9
5°	1554.6	1554.6	1547.1	1550.8	1550.8
7.5°	1542.1	1543.3	1535.8	1542.1	1539.6
10°	1527.0	1523.3	1518.3	1528.3	1530.8
12.5°	1513.3	1504.5	1502.0	1508.2	1509.5
15°	1484.4	1478.2	1476.9	1483.2	1484.4
17.5°	1451.9	1453.1	1448.1	1456.9	1455.6
20°	1420.6	1418.0	1415.5	1425.6	1426.8
22.5°	1385.5	1378.0	1380.5	1389.2	1391.7
25°	1342.9	1335.4	1340.4	1345.4	1347.9
27.5°	1297.8	1294.0	1292.8	1299.0	1301.5
30°	1252.7	1246.4	1246.4	1253.9	1250.2
32.5°	1197.6	1192.6	1195.1	1197.6	1198.8
35°	1147.5	1138.7	1142.5	1138.7	1140.0
37.5°	1088.6	1082.3	1081.1	1079.8	1079.8
40°	1033.5	1028.5	1023.5	1023.5	1017.2
42.5°	973.3	967.1	964.6	960.8	957.1
45°	910.7	903.2	901.9	898.2	898.2
47.5°	854.3	843.1	841.8	834.3	834.3
50°	790.4	782.9	777.9	772.9	769.2
52.5°	732.8	725.3	717.8	712.8	709.0
55°	667.7	658.9	657.7	651.4	651.4
57.5°	608.8	601.3	596.3	588.8	590.0
60°	547.4	539.9	537.4	531.1	531.1
62.5°	489.8	483.5	479.8	473.5	468.5
65°	437.2	428.4	420.9	415.9	417.1
67.5°	379.6	369.5	365.8	360.8	357.0
70°	324.4	318.2	311.9	305.7	305.7
72.5°	273.1	266.8	263.1	255.5	253.0
75°	225.5	218.0	211.7	206.7	202.9
77.5°	177.9	170.4	166.6	160.3	160.3
80°	132.8	127.8	124.0	121.5	116.5
82.5°	91.4	88.9	85.2	81.4	77.7
85°	53.9	52.6	50.1	43.8	42.6
87.5°	21.3	21.3	18.8	17.5	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)