

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: P296325

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3885.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

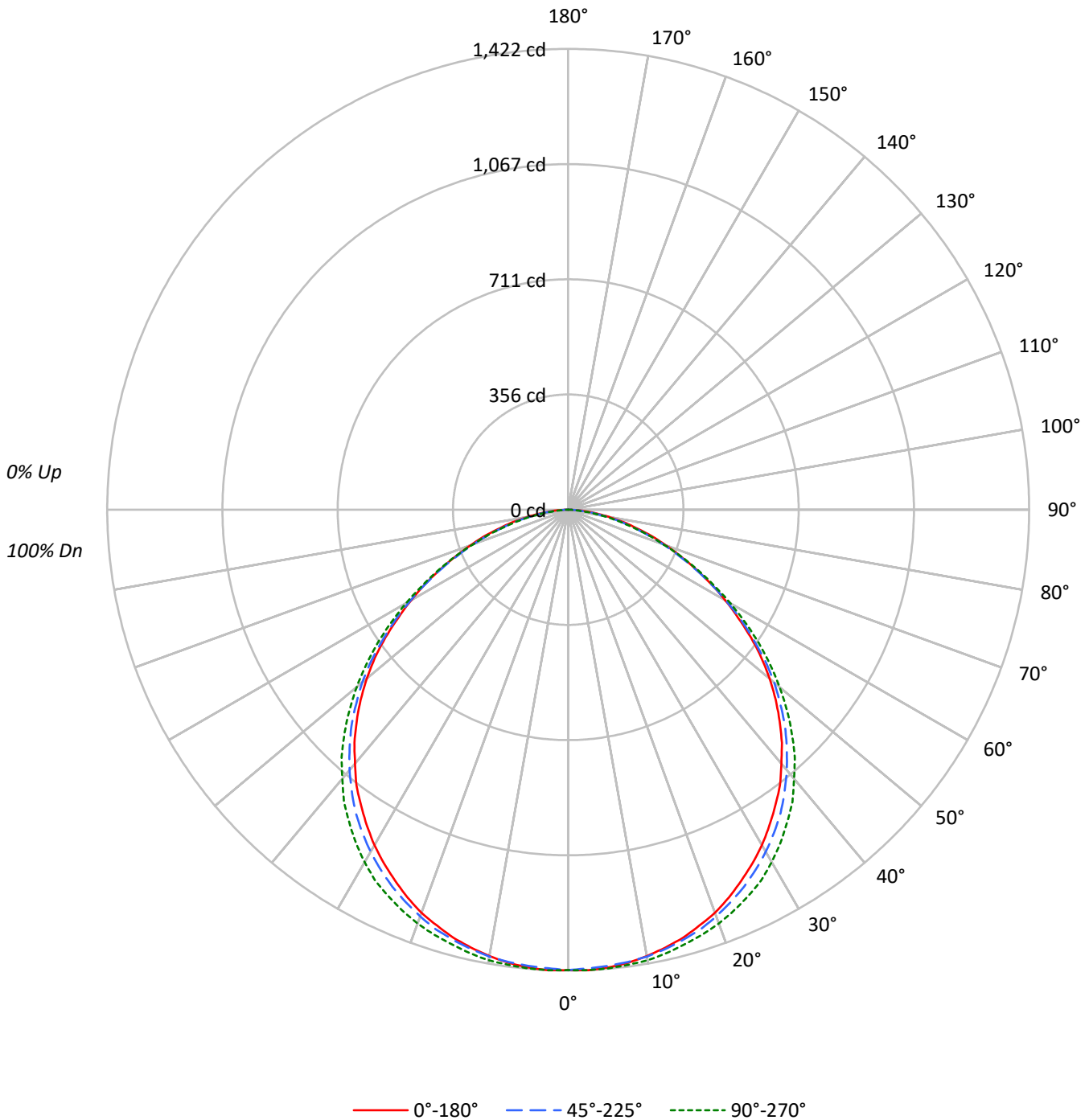
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1912	1912	1912
5°	1915	1909	1919
10°	1911	1913	1929
15°	1905	1913	1934
20°	1895	1912	1946
25°	1875	1906	1952
30°	1857	1894	1951
35°	1830	1876	1934
40°	1796	1843	1903
45°	1756	1800	1857
50°	1697	1737	1783
55°	1615	1635	1684
60°	1507	1515	1555
65°	1384	1375	1408
70°	1258	1223	1229
75°	1119	1057	1050
80°	971	868	845
85°	797	614	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	3.5
10°-20°	388.4	10.0
20°-30°	592.9	15.3
30°-40°	714.8	18.4
40°-50°	728.9	18.8
50°-60°	623.9	16.1
60°-70°	429.7	11.1
70°-80°	220.3	5.7
80°-90°	51.3	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°	1116.1	28.7
0°-40°	1830.9	47.1
0°-60°	3183.7	81.9
0°-90°	3885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1418	1415	1413	1418	1421	135
15°	1368	1366	1374	1384	1388	386
25°	1263	1268	1284	1306	1315	582
35°	1114	1119	1142	1167	1178	697
45°	923	924	946	970	976	711
55°	688	684	697	712	718	614
65°	435	424	432	435	442	432
75°	215	206	203	203	202	232
85°	52	46	40	35	31	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1422.2	1419.3	1416.3	1419.3	1422.2
5°	1417.8	1414.9	1413.4	1417.8	1420.8
7.5°	1410.4	1407.5	1407.5	1413.4	1416.3
10°	1398.7	1397.2	1400.1	1406.0	1411.9
12.5°	1383.9	1383.9	1388.3	1395.7	1401.6
15°	1367.7	1366.2	1373.6	1383.9	1388.3
17.5°	1345.6	1347.1	1357.4	1369.2	1375.1
20°	1323.5	1325.0	1335.3	1351.5	1358.9
22.5°	1295.5	1298.4	1310.2	1330.9	1338.2
25°	1263.1	1267.5	1283.7	1305.8	1314.6
27.5°	1230.6	1235.1	1252.7	1277.8	1289.6
30°	1195.3	1201.2	1218.8	1245.4	1255.7
32.5°	1155.5	1159.9	1182.0	1208.5	1218.8
35°	1114.2	1118.6	1142.2	1167.3	1177.6
37.5°	1072.9	1072.9	1096.5	1126.0	1136.3
40°	1022.8	1024.3	1049.4	1077.4	1083.3
42.5°	975.7	975.7	997.8	1024.3	1034.6
45°	922.6	924.1	946.2	969.8	975.7
47.5°	868.1	868.1	887.2	909.3	915.2
50°	810.6	807.7	829.8	847.4	851.9
52.5°	751.6	747.2	764.9	779.6	785.5
55°	688.3	683.9	697.1	711.9	717.7
57.5°	622.0	616.1	630.8	644.1	647.0
60°	560.1	551.2	563.0	570.4	577.7
62.5°	498.2	487.8	496.7	501.1	507.0
65°	434.8	424.5	431.8	434.8	442.1
67.5°	374.3	367.0	368.5	372.9	375.8
70°	319.8	311.0	311.0	311.0	312.4
72.5°	269.7	256.4	255.0	256.4	256.4
75°	215.2	206.3	203.4	203.4	201.9
77.5°	172.4	160.6	159.2	156.2	153.3
80°	125.3	115.0	112.0	110.5	109.1
82.5°	87.0	78.1	75.2	72.2	67.8
85°	51.6	45.7	39.8	35.4	31.0
87.5°	19.2	17.7	14.7	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)