

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: P296327

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296327
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3928.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

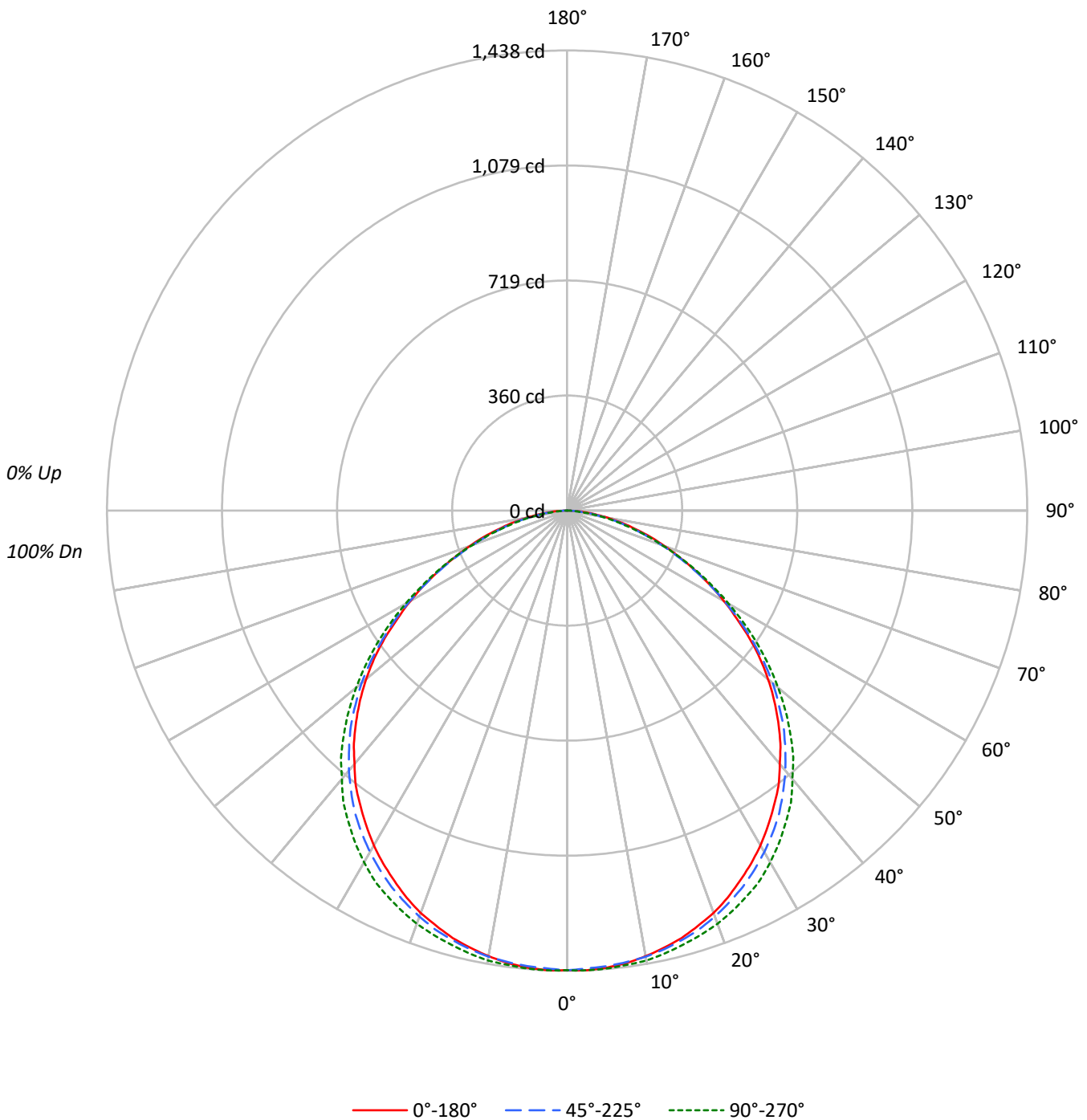
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1933	1933	1933
5°	1936	1930	1940
10°	1932	1934	1950
15°	1926	1935	1955
20°	1916	1933	1967
25°	1896	1927	1973
30°	1878	1915	1972
35°	1850	1897	1956
40°	1816	1864	1924
45°	1775	1820	1877
50°	1716	1756	1803
55°	1632	1653	1702
60°	1524	1532	1572
65°	1400	1390	1423
70°	1272	1237	1243
75°	1131	1069	1061
80°	982	877	855
85°	806	621	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.5
10°-20°	392.7	10.0
20°-30°	599.5	15.3
30°-40°	722.7	18.4
40°-50°	737.0	18.8
50°-60°	630.7	16.1
60°-70°	434.5	11.1
70°-80°	222.7	5.7
80°-90°	51.8	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°	1128.5	28.7
0°-40°	1851.2	47.1
0°-60°	3218.9	81.9
0°-90°	3928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1434	1430	1429	1434	1436	136
15°	1383	1381	1389	1399	1404	390
25°	1277	1282	1298	1320	1329	589
35°	1126	1131	1155	1180	1191	705
45°	933	934	957	980	986	719
55°	696	691	705	720	726	621
65°	440	429	437	440	447	437
75°	218	209	206	206	204	235
85°	52	46	40	36	31	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1438.0	1435.0	1432.0	1435.0	1438.0
5°	1433.5	1430.5	1429.0	1433.5	1436.5
7.5°	1426.1	1423.1	1423.1	1429.0	1432.0
10°	1414.1	1412.6	1415.6	1421.6	1427.5
12.5°	1399.2	1399.2	1403.7	1411.2	1417.1
15°	1382.8	1381.3	1388.8	1399.2	1403.7
17.5°	1360.5	1362.0	1372.4	1384.3	1390.3
20°	1338.1	1339.6	1350.1	1366.4	1373.9
22.5°	1309.8	1312.8	1324.7	1345.6	1353.0
25°	1277.0	1281.5	1297.9	1320.3	1329.2
27.5°	1244.3	1248.7	1266.6	1291.9	1303.9
30°	1208.5	1214.5	1232.3	1259.2	1269.6
32.5°	1168.3	1172.7	1195.1	1221.9	1232.3
35°	1126.5	1131.0	1154.9	1180.2	1190.6
37.5°	1084.8	1084.8	1108.7	1138.5	1148.9
40°	1034.1	1035.6	1061.0	1089.3	1095.2
42.5°	986.5	986.5	1008.8	1035.6	1046.1
45°	932.8	934.3	956.7	980.5	986.5
47.5°	877.7	877.7	897.1	919.4	925.4
50°	819.6	816.6	838.9	856.8	861.3
52.5°	760.0	755.5	773.4	788.3	794.2
55°	695.9	691.4	704.8	719.7	725.7
57.5°	628.8	622.9	637.8	651.2	654.2
60°	566.2	557.3	569.2	576.7	584.1
62.5°	503.7	493.2	502.2	506.6	512.6
65°	439.6	429.2	436.6	439.6	447.0
67.5°	378.5	371.0	372.5	377.0	380.0
70°	323.4	314.4	314.4	314.4	315.9
72.5°	272.7	259.3	257.8	259.3	259.3
75°	217.6	208.6	205.6	205.6	204.1
77.5°	174.3	162.4	160.9	158.0	155.0
80°	126.7	116.2	113.2	111.8	110.3
82.5°	87.9	79.0	76.0	73.0	68.5
85°	52.2	46.2	40.2	35.8	31.3
87.5°	19.4	17.9	14.9	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)