

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: P296326

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296326
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-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3902.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

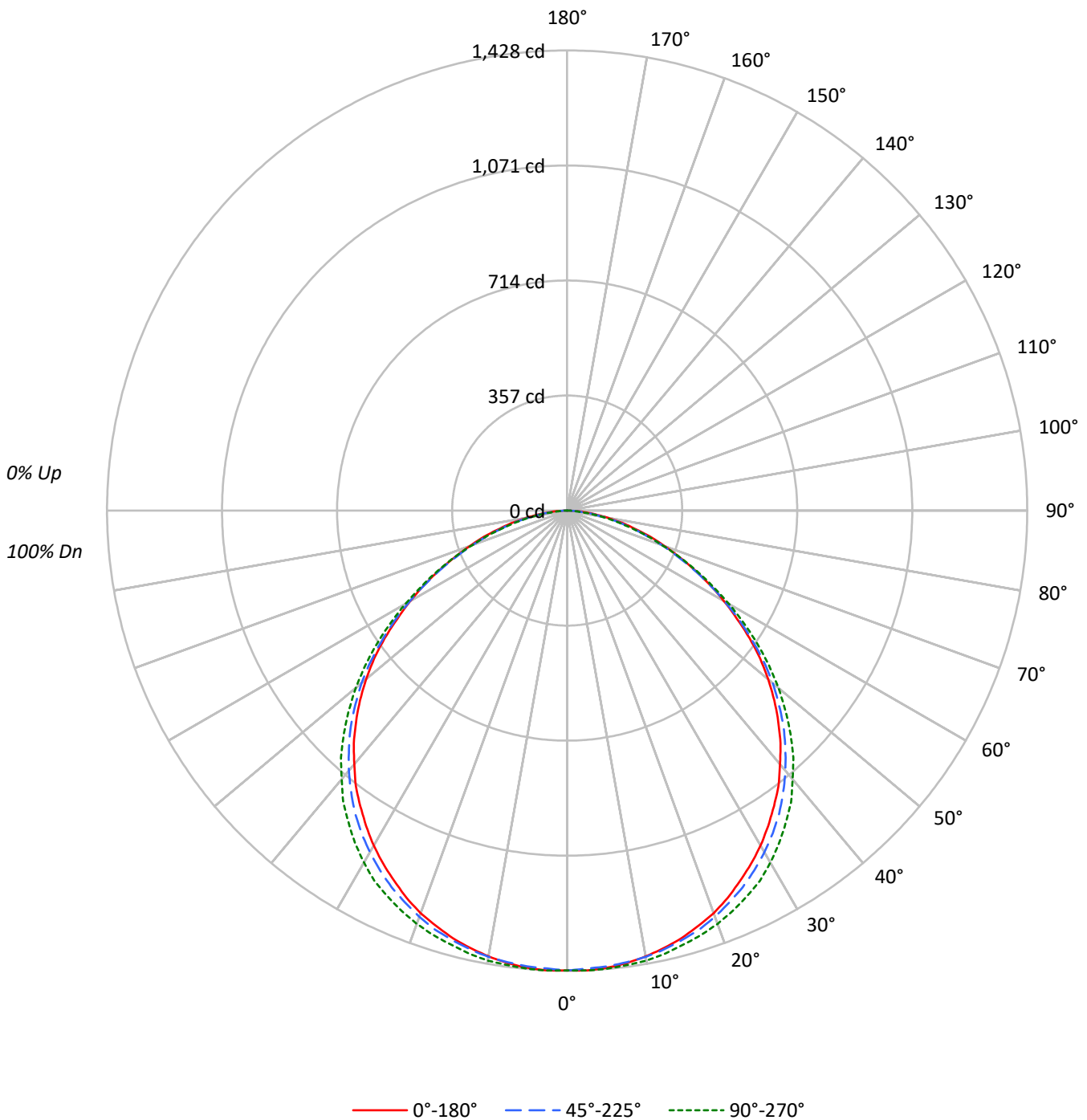
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1920	1920	1920
5°	1923	1917	1927
10°	1919	1921	1937
15°	1913	1922	1942
20°	1903	1920	1954
25°	1883	1914	1960
30°	1865	1902	1959
35°	1838	1884	1943
40°	1804	1851	1911
45°	1763	1808	1865
50°	1704	1744	1791
55°	1622	1643	1691
60°	1514	1522	1562
65°	1390	1381	1414
70°	1264	1229	1234
75°	1123	1062	1054
80°	975	872	848
85°	800	618	480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.5
10°-20°	390.1	10.0
20°-30°	595.5	15.3
30°-40°	717.9	18.4
40°-50°	732.1	18.8
50°-60°	626.6	16.1
60°-70°	431.6	11.1
70°-80°	221.3	5.7
80°-90°	51.5	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°	1121.0	28.7
0°-40°	1838.9	47.1
0°-60°	3197.6	81.9
0°-90°	3902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1424	1421	1420	1424	1427	135
15°	1374	1372	1380	1390	1394	387
25°	1269	1273	1289	1312	1320	585
35°	1119	1124	1147	1172	1183	700
45°	927	928	950	974	980	714
55°	691	687	700	715	721	617
65°	437	426	434	437	444	434
75°	216	207	204	204	203	233
85°	52	46	40	36	31	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1428.5	1425.5	1422.5	1425.5	1428.5
5°	1424.0	1421.1	1419.6	1424.0	1427.0
7.5°	1416.6	1413.7	1413.7	1419.6	1422.5
10°	1404.8	1403.3	1406.3	1412.2	1418.1
12.5°	1390.0	1390.0	1394.4	1401.8	1407.7
15°	1373.7	1372.2	1379.6	1390.0	1394.4
17.5°	1351.5	1353.0	1363.3	1375.2	1381.1
20°	1329.3	1330.8	1341.1	1357.4	1364.8
22.5°	1301.2	1304.1	1316.0	1336.7	1344.1
25°	1268.6	1273.0	1289.3	1311.5	1320.4
27.5°	1236.0	1240.5	1258.2	1283.4	1295.2
30°	1200.5	1206.4	1224.2	1250.8	1261.2
32.5°	1160.5	1165.0	1187.2	1213.8	1224.2
35°	1119.1	1123.5	1147.2	1172.4	1182.7
37.5°	1077.6	1077.6	1101.3	1130.9	1141.3
40°	1027.3	1028.8	1053.9	1082.1	1088.0
42.5°	979.9	979.9	1002.1	1028.8	1039.1
45°	926.6	928.1	950.3	974.0	979.9
47.5°	871.9	871.9	891.1	913.3	919.2
50°	814.1	811.2	833.4	851.2	855.6
52.5°	754.9	750.5	768.3	783.1	789.0
55°	691.3	686.8	700.2	715.0	720.9
57.5°	624.7	618.8	633.6	646.9	649.8
60°	562.5	553.6	565.5	572.9	580.3
62.5°	500.3	490.0	498.8	503.3	509.2
65°	436.7	426.3	433.7	436.7	444.1
67.5°	376.0	368.6	370.1	374.5	377.5
70°	321.2	312.3	312.3	312.3	313.8
72.5°	270.9	257.6	256.1	257.6	257.6
75°	216.1	207.2	204.3	204.3	202.8
77.5°	173.2	161.3	159.9	156.9	153.9
80°	125.8	115.5	112.5	111.0	109.5
82.5°	87.3	78.5	75.5	72.5	68.1
85°	51.8	45.9	40.0	35.5	31.1
87.5°	19.2	17.8	14.8	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)