

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: P296175

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296175
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-LD5-45-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

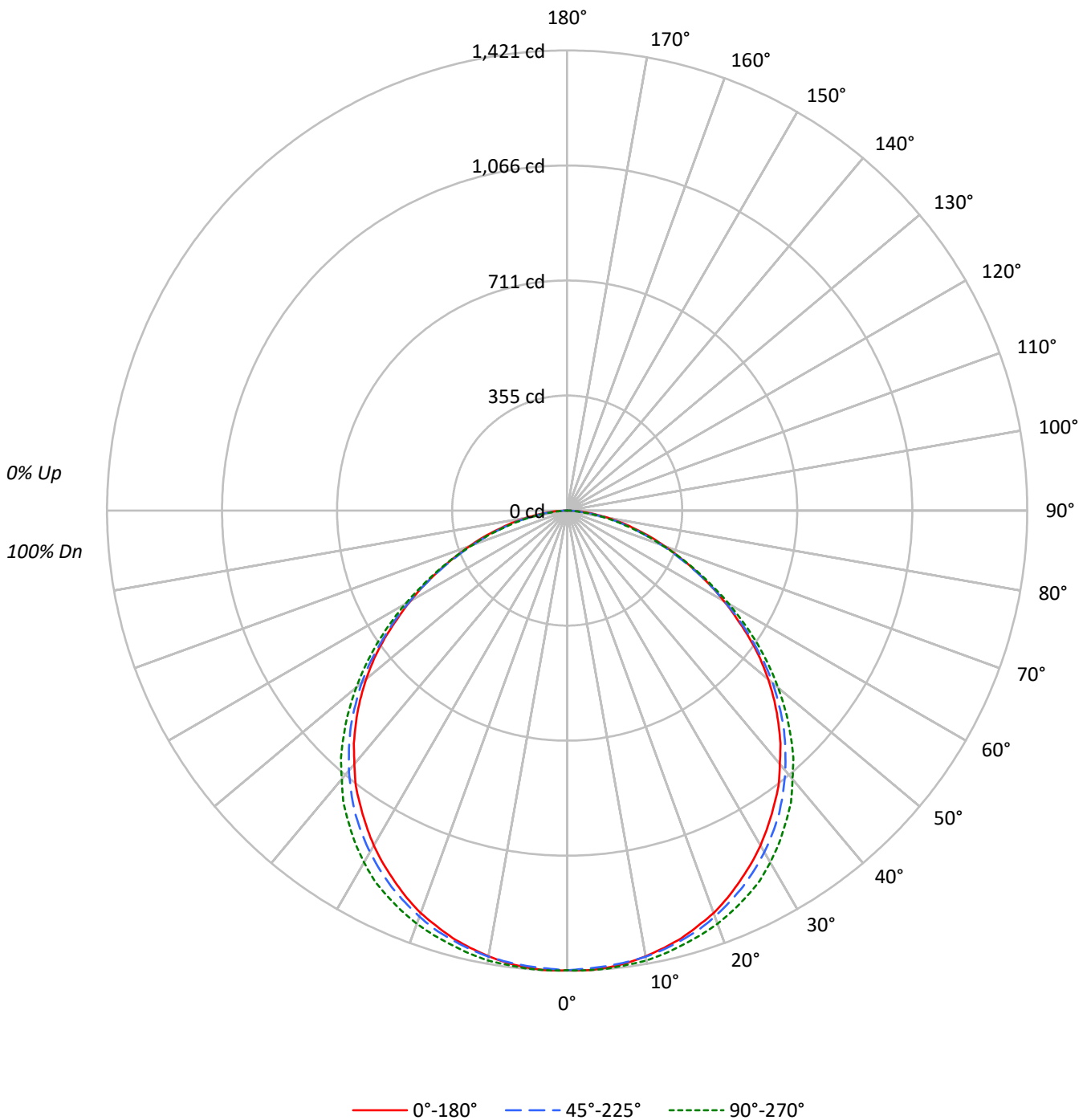
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1910	1910	1910
5°	1913	1907	1917
10°	1909	1911	1927
15°	1904	1912	1932
20°	1894	1910	1944
25°	1874	1904	1950
30°	1856	1892	1949
35°	1829	1875	1933
40°	1795	1842	1901
45°	1754	1799	1855
50°	1696	1735	1782
55°	1613	1634	1682
60°	1506	1514	1554
65°	1383	1374	1407
70°	1257	1222	1228
75°	1118	1056	1049
80°	970	867	845
85°	795	614	477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.5
10°-20°	388.1	10.0
20°-30°	592.5	15.3
30°-40°	714.3	18.4
40°-50°	728.4	18.8
50°-60°	623.4	16.1
60°-70°	429.4	11.1
70°-80°	220.1	5.7
80°-90°	51.2	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°	1115.2	28.7
0°-40°	1829.5	47.1
0°-60°	3181.2	81.9
0°-90°	3882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1417	1414	1412	1417	1420	135
15°	1367	1365	1372	1383	1387	385
25°	1262	1266	1283	1305	1314	582
35°	1113	1118	1141	1166	1177	697
45°	922	923	946	969	975	710
55°	688	683	697	711	717	614
65°	434	424	432	434	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°	1419.7	1419.7	1419.7	1419.7	1419.7
2.5°	1421.1	1418.2	1415.2	1418.2	1421.1
5°	1416.7	1413.8	1412.3	1416.7	1419.7
7.5°	1409.4	1406.4	1406.4	1412.3	1415.2
10°	1397.6	1396.1	1399.0	1404.9	1410.8
12.5°	1382.8	1382.8	1387.3	1394.6	1400.5
15°	1366.6	1365.2	1372.5	1382.8	1387.3
17.5°	1344.6	1346.0	1356.3	1368.1	1374.0
20°	1322.5	1323.9	1334.2	1350.4	1357.8
22.5°	1294.5	1297.4	1309.2	1329.8	1337.2
25°	1262.1	1266.5	1282.7	1304.8	1313.6
27.5°	1229.7	1234.1	1251.8	1276.8	1288.6
30°	1194.3	1200.2	1217.9	1244.4	1254.7
32.5°	1154.6	1159.0	1181.1	1207.6	1217.9
35°	1113.3	1117.8	1141.3	1166.4	1176.7
37.5°	1072.1	1072.1	1095.7	1125.1	1135.4
40°	1022.0	1023.5	1048.5	1076.5	1082.4
42.5°	974.9	974.9	997.0	1023.5	1033.8
45°	921.9	923.4	945.5	969.0	974.9
47.5°	867.4	867.4	886.6	908.6	914.5
50°	810.0	807.0	829.1	846.8	851.2
52.5°	751.1	746.6	764.3	779.0	784.9
55°	687.7	683.3	696.6	711.3	717.2
57.5°	621.5	615.6	630.3	643.6	646.5
60°	559.6	550.8	562.6	569.9	577.3
62.5°	497.8	487.5	496.3	500.7	506.6
65°	434.4	424.1	431.5	434.4	441.8
67.5°	374.1	366.7	368.2	372.6	375.5
70°	319.6	310.7	310.7	310.7	312.2
72.5°	269.5	256.2	254.8	256.2	256.2
75°	215.0	206.2	203.2	203.2	201.8
77.5°	172.3	160.5	159.0	156.1	153.2
80°	125.2	114.9	111.9	110.5	109.0
82.5°	86.9	78.1	75.1	72.2	67.7
85°	51.5	45.7	39.8	35.3	30.9
87.5°	19.1	17.7	14.7	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)