

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: P296163

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296163
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-LD5-42-RDP-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3413.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

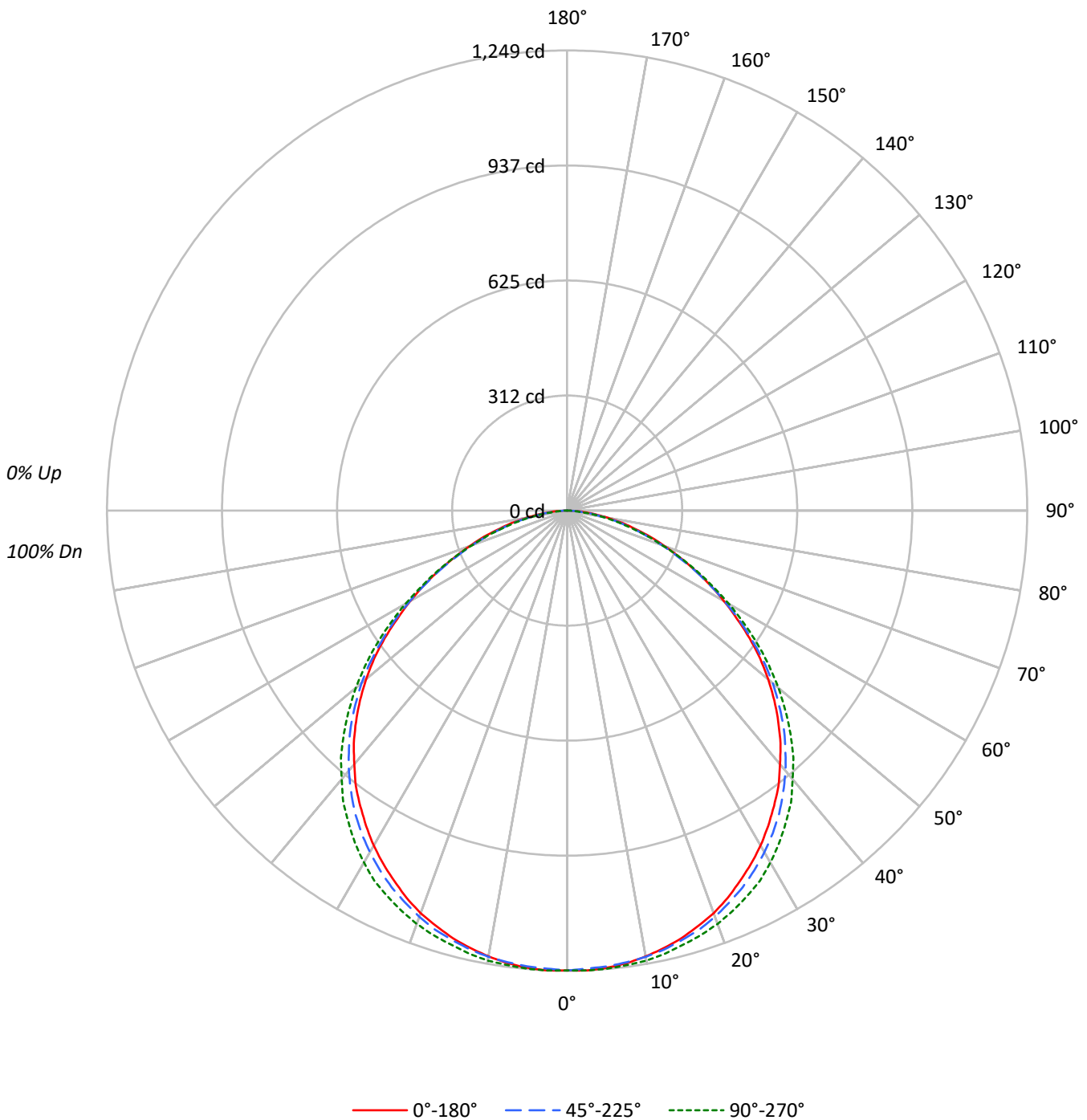
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1679	1679	1679
5°	1682	1677	1686
10°	1679	1680	1695
15°	1674	1681	1699
20°	1665	1680	1709
25°	1647	1674	1715
30°	1631	1664	1714
35°	1608	1648	1699
40°	1578	1619	1671
45°	1542	1582	1631
50°	1491	1526	1567
55°	1418	1437	1479
60°	1324	1331	1366
65°	1216	1208	1237
70°	1105	1075	1080
75°	983	929	922
80°	853	762	742
85°	699	540	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.5
10°-20°	341.3	10.0
20°-30°	520.9	15.3
30°-40°	628.0	18.4
40°-50°	640.4	18.8
50°-60°	548.1	16.1
60°-70°	377.5	11.1
70°-80°	193.5	5.7
80°-90°	45.0	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°	980.5	28.7
0°-40°	1608.5	47.1
0°-60°	2796.9	81.9
0°-90°	3413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1246	1243	1242	1246	1248	118
15°	1202	1200	1207	1216	1220	339
25°	1110	1114	1128	1147	1155	512
35°	979	983	1003	1025	1034	612
45°	810	812	831	852	857	624
55°	605	601	612	625	630	539
65°	382	373	379	382	388	380
75°	189	181	179	179	177	204
85°	45	40	35	31	27	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.1	1248.1	1248.1	1248.1	1248.1
2.5°	1249.4	1246.9	1244.3	1246.9	1249.4
5°	1245.6	1243.0	1241.7	1245.6	1248.1
7.5°	1239.1	1236.5	1236.5	1241.7	1244.3
10°	1228.7	1227.4	1230.0	1235.2	1240.4
12.5°	1215.8	1215.8	1219.7	1226.1	1231.3
15°	1201.5	1200.2	1206.7	1215.8	1219.7
17.5°	1182.1	1183.4	1192.5	1202.8	1208.0
20°	1162.7	1164.0	1173.1	1187.3	1193.8
22.5°	1138.1	1140.7	1151.0	1169.2	1175.6
25°	1109.6	1113.5	1127.7	1147.2	1154.9
27.5°	1081.1	1085.0	1100.5	1122.6	1132.9
30°	1050.0	1055.2	1070.8	1094.1	1103.1
32.5°	1015.1	1019.0	1038.4	1061.7	1070.8
35°	978.8	982.7	1003.4	1025.4	1034.5
37.5°	942.6	942.6	963.3	989.2	998.3
40°	898.6	899.9	921.9	946.5	951.6
42.5°	857.1	857.1	876.6	899.9	908.9
45°	810.5	811.8	831.2	852.0	857.1
47.5°	762.6	762.6	779.4	798.9	804.0
50°	712.1	709.5	728.9	744.5	748.4
52.5°	660.3	656.4	672.0	684.9	690.1
55°	604.7	600.8	612.4	625.4	630.5
57.5°	546.4	541.2	554.2	565.8	568.4
60°	492.0	484.2	494.6	501.1	507.5
62.5°	437.6	428.6	436.3	440.2	445.4
65°	382.0	372.9	379.4	382.0	388.4
67.5°	328.9	322.4	323.7	327.6	330.2
70°	281.0	273.2	273.2	273.2	274.5
72.5°	236.9	225.3	224.0	225.3	225.3
75°	189.0	181.3	178.7	178.7	177.4
77.5°	151.5	141.1	139.8	137.2	134.7
80°	110.1	101.0	98.4	97.1	95.8
82.5°	76.4	68.6	66.0	63.4	59.6
85°	45.3	40.1	35.0	31.1	27.2
87.5°	16.8	15.5	12.9	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)