

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: P296308

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296308
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-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: 3294.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

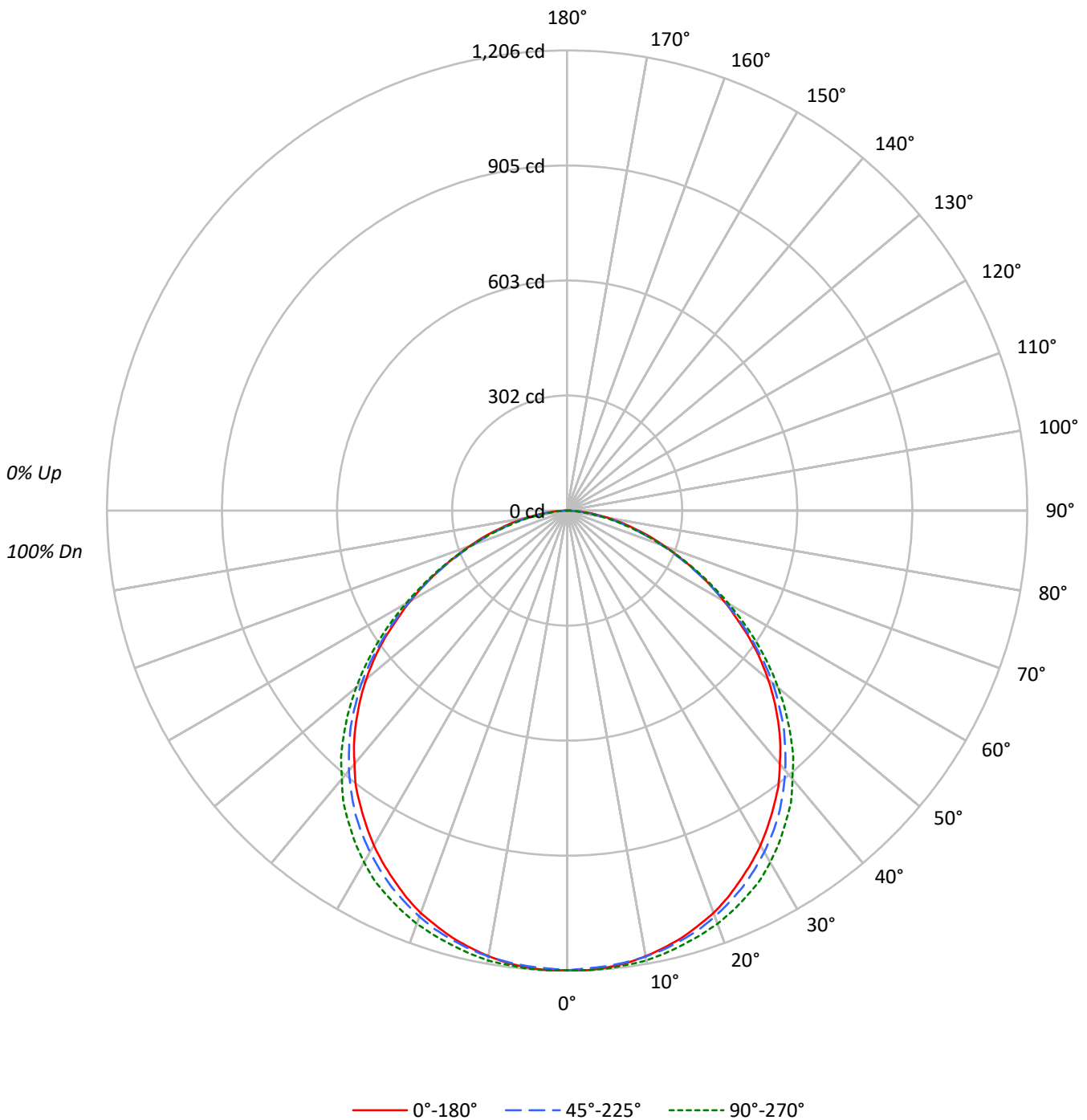
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1621	1621	1621
5°	1624	1619	1627
10°	1620	1622	1636
15°	1615	1622	1640
20°	1607	1621	1650
25°	1590	1616	1655
30°	1574	1606	1654
35°	1552	1591	1640
40°	1523	1563	1613
45°	1489	1527	1574
50°	1439	1473	1512
55°	1369	1387	1428
60°	1278	1285	1318
65°	1174	1166	1194
70°	1067	1037	1042
75°	948	896	890
80°	823	736	717
85°	675	520	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.5
10°-20°	329.4	10.0
20°-30°	502.7	15.3
30°-40°	606.1	18.4
40°-50°	618.0	18.8
50°-60°	528.9	16.1
60°-70°	364.4	11.1
70°-80°	186.8	5.7
80°-90°	43.5	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°	946.3	28.7
0°-40°	1552.4	47.1
0°-60°	2699.4	81.9
0°-90°	3294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1202	1200	1198	1202	1205	114
15°	1160	1158	1165	1173	1177	327
25°	1071	1075	1088	1107	1115	494
35°	945	948	968	990	998	591
45°	782	784	802	822	827	603
55°	584	580	591	604	609	521
65°	369	360	366	369	375	366
75°	182	175	172	172	171	197
85°	44	39	34	30	26	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1205.9	1203.4	1200.9	1203.4	1205.9
5°	1202.1	1199.6	1198.4	1202.1	1204.6
7.5°	1195.9	1193.4	1193.4	1198.4	1200.9
10°	1185.9	1184.6	1187.1	1192.1	1197.1
12.5°	1173.4	1173.4	1177.1	1183.4	1188.4
15°	1159.6	1158.4	1164.6	1173.4	1177.1
17.5°	1140.9	1142.1	1150.9	1160.9	1165.9
20°	1122.2	1123.4	1132.2	1145.9	1152.1
22.5°	1098.4	1100.9	1110.9	1128.4	1134.6
25°	1070.9	1074.7	1088.4	1107.2	1114.7
27.5°	1043.4	1047.2	1062.2	1083.4	1093.4
30°	1013.4	1018.4	1033.4	1055.9	1064.7
32.5°	979.7	983.4	1002.2	1024.7	1033.4
35°	944.7	948.5	968.5	989.7	998.4
37.5°	909.7	909.7	929.7	954.7	963.5
40°	867.2	868.5	889.7	913.5	918.5
42.5°	827.2	827.2	846.0	868.5	877.2
45°	782.3	783.5	802.3	822.2	827.2
47.5°	736.0	736.0	752.3	771.0	776.0
50°	687.3	684.8	703.5	718.5	722.3
52.5°	637.3	633.6	648.5	661.0	666.0
55°	583.6	579.8	591.1	603.6	608.6
57.5°	527.3	522.3	534.8	546.1	548.6
60°	474.9	467.4	477.4	483.6	489.8
62.5°	422.4	413.6	421.1	424.9	429.9
65°	368.6	359.9	366.1	368.6	374.9
67.5°	317.4	311.2	312.4	316.2	318.7
70°	271.2	263.7	263.7	263.7	264.9
72.5°	228.7	217.4	216.2	217.4	217.4
75°	182.4	174.9	172.4	172.4	171.2
77.5°	146.2	136.2	135.0	132.5	130.0
80°	106.2	97.5	95.0	93.7	92.5
82.5°	73.7	66.2	63.7	61.2	57.5
85°	43.7	38.7	33.7	30.0	26.2
87.5°	16.2	15.0	12.5	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)