

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: P296249

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296249
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-L93050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3205.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

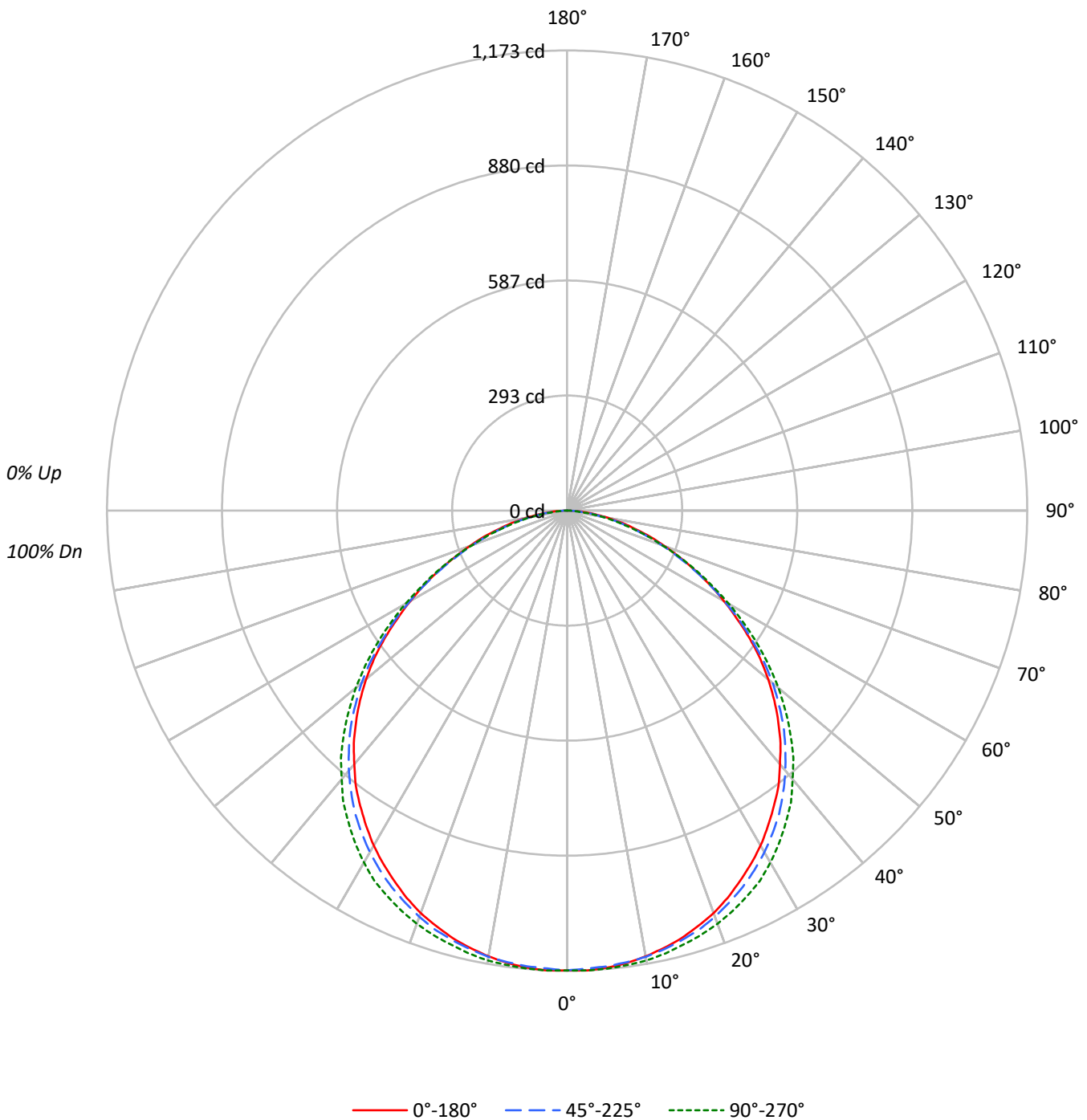
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1577	1577	1577
5°	1580	1575	1583
10°	1576	1578	1591
15°	1572	1578	1595
20°	1563	1577	1605
25°	1547	1572	1610
30°	1532	1562	1609
35°	1510	1548	1596
40°	1482	1521	1570
45°	1448	1485	1532
50°	1400	1433	1471
55°	1332	1349	1389
60°	1243	1250	1283
65°	1142	1134	1161
70°	1038	1009	1014
75°	923	872	866
80°	800	716	697
85°	658	506	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.5
10°-20°	320.5	10.0
20°-30°	489.1	15.3
30°-40°	589.7	18.4
40°-50°	601.3	18.8
50°-60°	514.7	16.1
60°-70°	354.5	11.1
70°-80°	181.7	5.7
80°-90°	42.3	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°	920.7	28.7
0°-40°	1510.4	47.1
0°-60°	2626.4	81.9
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1170	1167	1166	1170	1172	111
15°	1128	1127	1133	1142	1145	318
25°	1042	1046	1059	1077	1084	481
35°	919	923	942	963	972	575
45°	761	762	781	800	805	586
55°	568	564	575	587	592	507
65°	359	350	356	359	365	356
75°	178	170	168	168	167	191
85°	43	38	33	29	26	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1173.3	1170.9	1168.4	1170.9	1173.3
5°	1169.6	1167.2	1166.0	1169.6	1172.1
7.5°	1163.6	1161.1	1161.1	1166.0	1168.4
10°	1153.8	1152.6	1155.1	1159.9	1164.8
12.5°	1141.7	1141.7	1145.3	1151.4	1156.3
15°	1128.3	1127.1	1133.2	1141.7	1145.3
17.5°	1110.1	1111.3	1119.8	1129.5	1134.4
20°	1091.8	1093.1	1101.6	1114.9	1121.0
22.5°	1068.7	1071.2	1080.9	1097.9	1104.0
25°	1042.0	1045.6	1059.0	1077.2	1084.5
27.5°	1015.2	1018.9	1033.5	1054.1	1063.9
30°	986.1	990.9	1005.5	1027.4	1035.9
32.5°	953.2	956.9	975.1	997.0	1005.5
35°	919.2	922.8	942.3	963.0	971.5
37.5°	885.1	885.1	904.6	928.9	937.4
40°	843.8	845.0	865.7	888.8	893.7
42.5°	804.9	804.9	823.1	845.0	853.5
45°	761.1	762.3	780.6	800.0	804.9
47.5°	716.1	716.1	731.9	750.2	755.0
50°	668.7	666.3	684.5	699.1	702.8
52.5°	620.1	616.4	631.0	643.2	648.0
55°	567.8	564.2	575.1	587.3	592.1
57.5°	513.1	508.2	520.4	531.3	533.8
60°	462.0	454.7	464.5	470.5	476.6
62.5°	411.0	402.4	409.7	413.4	418.3
65°	358.7	350.2	356.2	358.7	364.8
67.5°	308.8	302.7	304.0	307.6	310.0
70°	263.8	256.5	256.5	256.5	257.8
72.5°	222.5	211.6	210.3	211.6	211.6
75°	177.5	170.2	167.8	167.8	166.6
77.5°	142.3	132.5	131.3	128.9	126.4
80°	103.3	94.8	92.4	91.2	90.0
82.5°	71.7	64.4	62.0	59.6	55.9
85°	42.6	37.7	32.8	29.2	25.5
87.5°	15.8	14.6	12.2	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)