

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: P296150

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296150
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-LD5-31-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2680.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

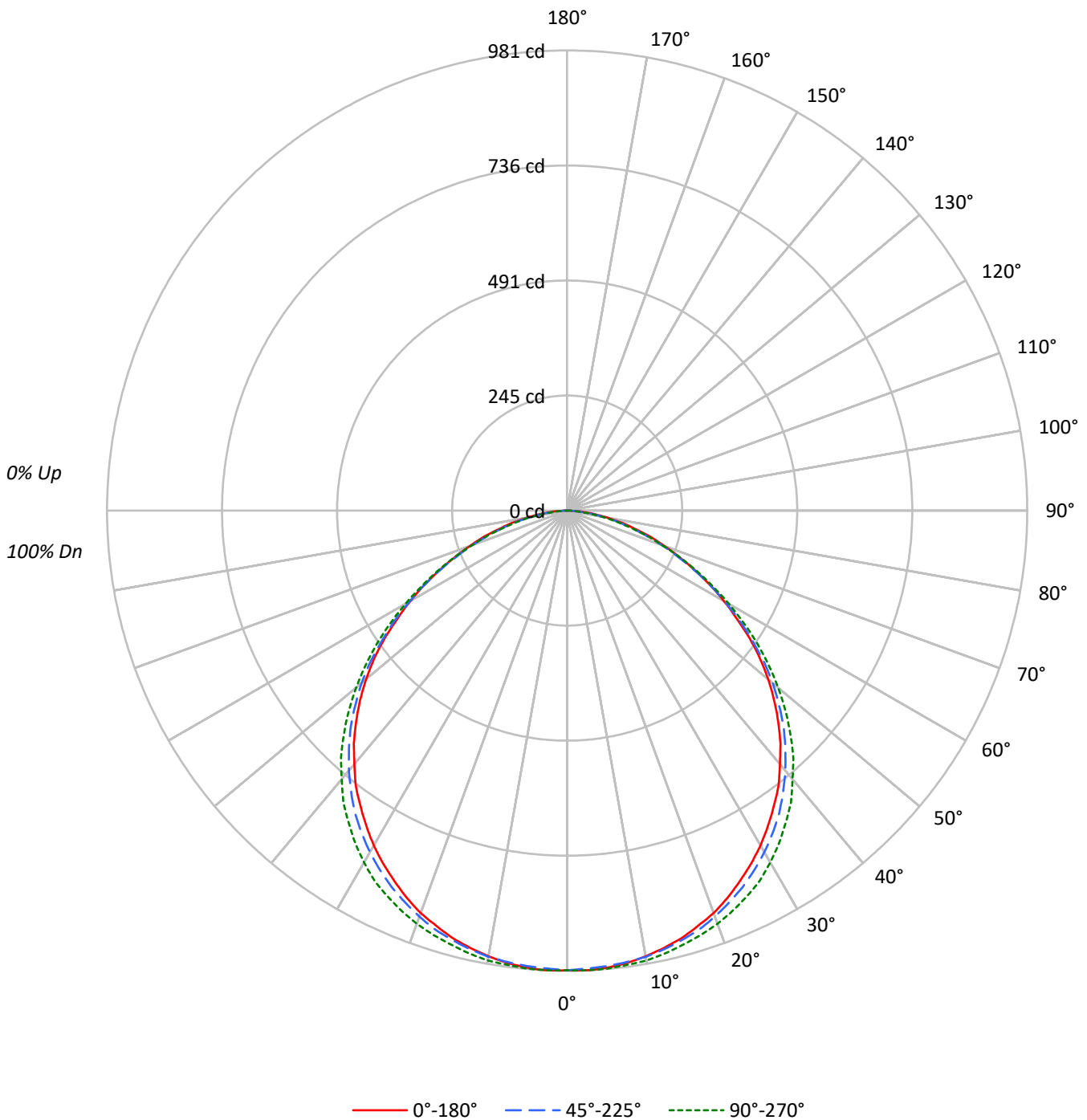
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1319	1319	1319
5°	1321	1317	1324
10°	1318	1320	1331
15°	1314	1320	1334
20°	1307	1319	1342
25°	1294	1315	1346
30°	1281	1306	1346
35°	1262	1294	1334
40°	1239	1271	1313
45°	1211	1242	1281
50°	1171	1198	1230
55°	1114	1128	1161
60°	1040	1045	1072
65°	955	948	971
70°	868	844	848
75°	771	729	724
80°	669	599	583
85°	550	425	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.5
10°-20°	268.0	10.0
20°-30°	409.0	15.3
30°-40°	493.1	18.4
40°-50°	502.8	18.8
50°-60°	430.3	16.1
60°-70°	296.4	11.1
70°-80°	152.0	5.7
80°-90°	35.4	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°	769.9	28.7
0°-40°	1263.0	47.1
0°-60°	2196.2	81.9
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	978	976	975	978	980	93
15°	944	942	948	955	958	266
25°	871	874	886	901	907	402
35°	769	772	788	805	812	481
45°	636	638	653	669	673	490
55°	475	472	481	491	495	424
65°	300	293	298	300	305	298
75°	148	142	140	140	139	160
85°	36	32	28	24	21	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	980.1	980.1	980.1	980.1	980.1
2.5°	981.1	979.1	977.0	979.1	981.1
5°	978.1	976.0	975.0	978.1	980.1
7.5°	973.0	970.9	970.9	975.0	977.0
10°	964.8	963.8	965.9	969.9	974.0
12.5°	954.7	954.7	957.7	962.8	966.9
15°	943.5	942.5	947.6	954.7	957.7
17.5°	928.2	929.3	936.4	944.5	948.6
20°	913.0	914.0	921.1	932.3	937.4
22.5°	893.7	895.7	903.8	918.1	923.2
25°	871.3	874.4	885.5	900.8	906.9
27.5°	848.9	852.0	864.2	881.5	889.6
30°	824.5	828.6	840.8	859.1	866.2
32.5°	797.1	800.1	815.4	833.7	840.8
35°	768.6	771.7	787.9	805.2	812.3
37.5°	740.1	740.1	756.4	776.7	783.9
40°	705.6	706.6	723.9	743.2	747.3
42.5°	673.0	673.0	688.3	706.6	713.7
45°	636.4	637.5	652.7	669.0	673.0
47.5°	598.8	598.8	612.0	627.3	631.4
50°	559.2	557.1	572.4	584.6	587.6
52.5°	518.5	515.5	527.7	537.8	541.9
55°	474.8	471.7	480.9	491.1	495.1
57.5°	429.0	425.0	435.1	444.3	446.3
60°	386.3	380.2	388.4	393.5	398.5
62.5°	343.6	336.5	342.6	345.7	349.7
65°	299.9	292.8	297.9	299.9	305.0
67.5°	258.2	253.2	254.2	257.2	259.3
70°	220.6	214.5	214.5	214.5	215.5
72.5°	186.1	176.9	175.9	176.9	176.9
75°	148.4	142.3	140.3	140.3	139.3
77.5°	119.0	110.8	109.8	107.8	105.7
80°	86.4	79.3	77.3	76.3	75.2
82.5°	60.0	53.9	51.9	49.8	46.8
85°	35.6	31.5	27.5	24.4	21.4
87.5°	13.2	12.2	10.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)