

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: P296151

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296151
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2687.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

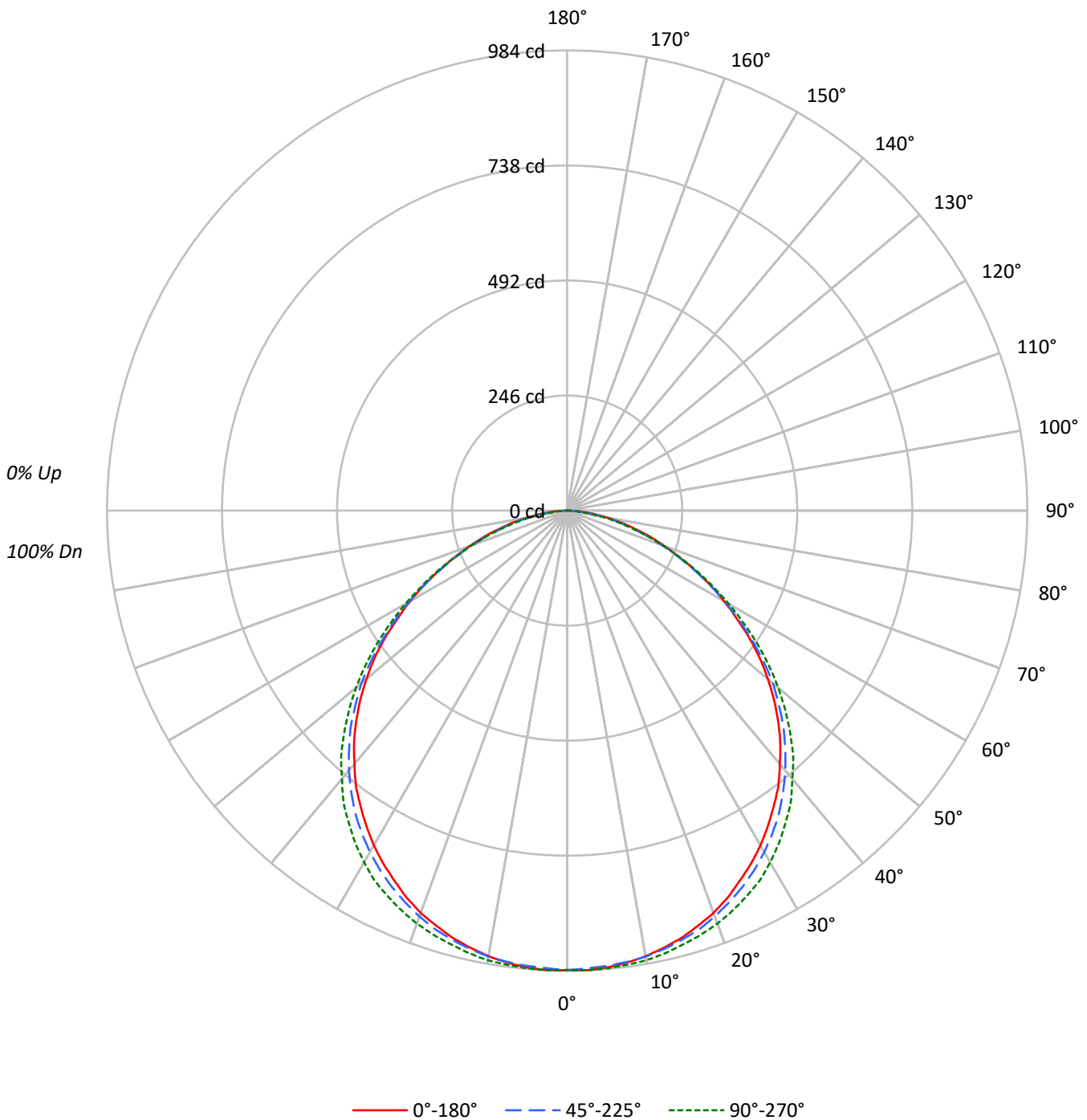
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1322	1322	1322
5°	1324	1320	1327
10°	1322	1323	1334
15°	1318	1323	1338
20°	1311	1322	1346
25°	1297	1318	1350
30°	1284	1310	1349
35°	1266	1298	1338
40°	1242	1275	1316
45°	1214	1245	1284
50°	1173	1201	1233
55°	1117	1131	1164
60°	1042	1048	1075
65°	957	951	974
70°	870	846	850
75°	774	731	726
80°	671	600	584
85°	551	425	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.5
10°-20°	268.7	10.0
20°-30°	410.1	15.3
30°-40°	494.4	18.4
40°-50°	504.2	18.8
50°-60°	431.5	16.1
60°-70°	297.2	11.1
70°-80°	152.4	5.7
80°-90°	35.5	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°	771.9	28.7
0°-40°	1266.3	47.1
0°-60°	2201.9	81.9
0°-90°	2687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	981	979	978	981	983	93
15°	946	945	950	957	960	267
25°	874	877	888	903	909	403
35°	771	774	790	807	814	482
45°	638	639	654	671	675	492
55°	476	473	482	492	496	425
65°	301	294	299	301	306	299
75°	149	143	141	141	140	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°	982.6	982.6	982.6	982.6	982.6
2.5°	983.7	981.6	979.6	981.6	983.7
5°	980.6	978.6	977.5	980.6	982.6
7.5°	975.5	973.5	973.5	977.5	979.6
10°	967.4	966.3	968.4	972.5	976.5
12.5°	957.2	957.2	960.2	965.3	969.4
15°	945.9	944.9	950.0	957.2	960.2
17.5°	930.7	931.7	938.8	947.0	951.0
20°	915.4	916.4	923.5	934.7	939.8
22.5°	896.0	898.0	906.2	920.5	925.6
25°	873.6	876.6	887.8	903.1	909.3
27.5°	851.2	854.2	866.4	883.8	891.9
30°	826.7	830.8	843.0	861.3	868.5
32.5°	799.2	802.2	817.5	835.9	843.0
35°	770.6	773.7	790.0	807.3	814.5
37.5°	742.1	742.1	758.4	778.8	785.9
40°	707.4	708.4	725.8	745.1	749.2
42.5°	674.8	674.8	690.1	708.4	715.6
45°	638.1	639.1	654.4	670.7	674.8
47.5°	600.4	600.4	613.6	628.9	633.0
50°	560.6	558.6	573.9	586.1	589.2
52.5°	519.9	516.8	529.0	539.2	543.3
55°	476.0	473.0	482.1	492.3	496.4
57.5°	430.2	426.1	436.3	445.5	447.5
60°	387.4	381.2	389.4	394.5	399.6
62.5°	344.5	337.4	343.5	346.6	350.7
65°	300.7	293.6	298.7	300.7	305.8
67.5°	258.9	253.8	254.8	257.9	259.9
70°	221.2	215.1	215.1	215.1	216.1
72.5°	186.5	177.4	176.3	177.4	177.4
75°	148.8	142.7	140.7	140.7	139.6
77.5°	119.3	111.1	110.1	108.1	106.0
80°	86.6	79.5	77.5	76.5	75.4
82.5°	60.1	54.0	52.0	49.9	46.9
85°	35.7	31.6	27.5	24.5	21.4
87.5°	13.3	12.2	10.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)