

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: P296645

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

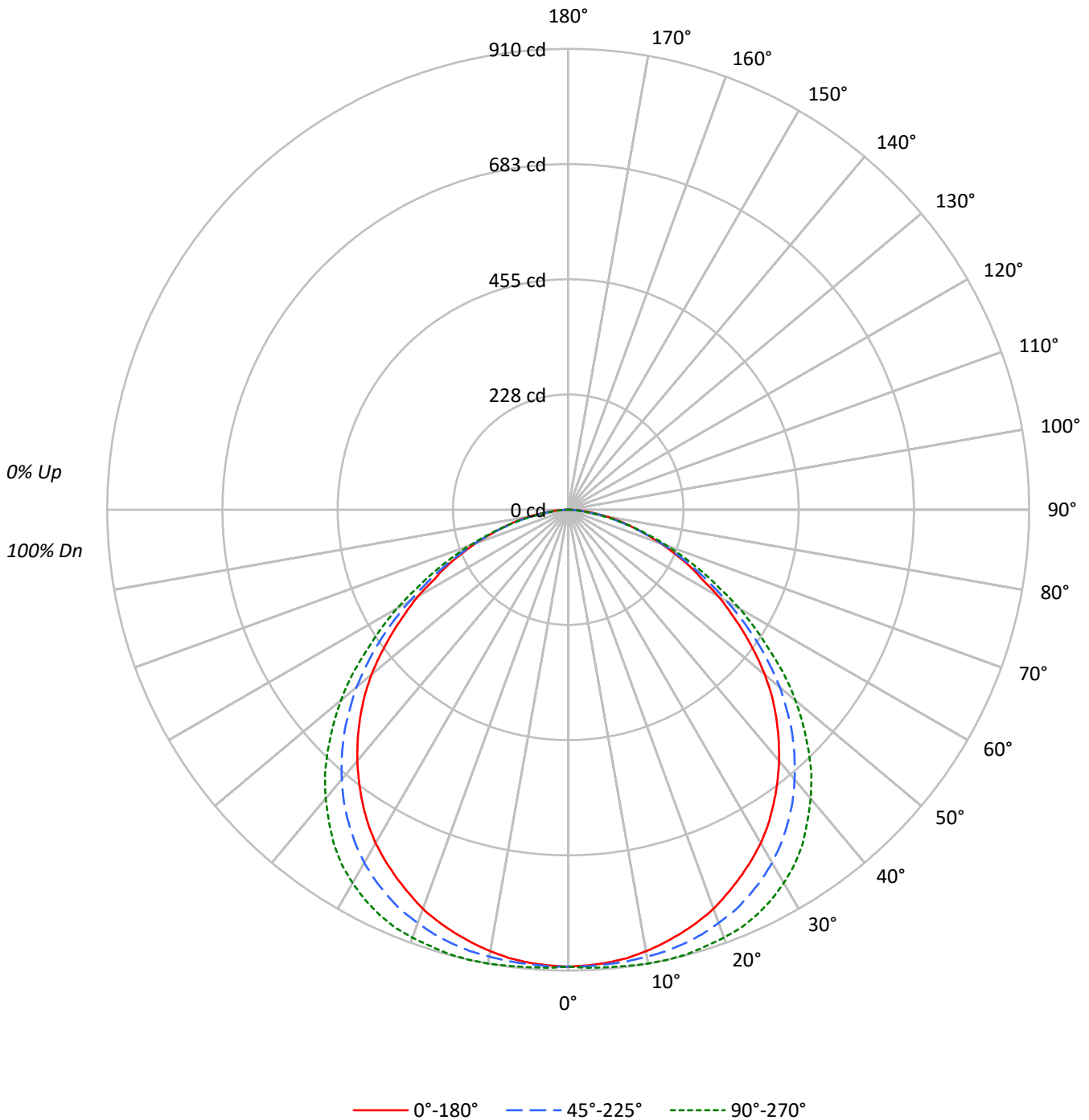
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2428	2428	2428
5°	2425	2433	2450
10°	2419	2449	2487
15°	2410	2471	2531
20°	2402	2487	2575
25°	2381	2500	2619
30°	2362	2501	2645
35°	2325	2482	2649
40°	2274	2442	2616
45°	2211	2381	2552
50°	2122	2283	2452
55°	1986	2138	2283
60°	1846	1946	2104
65°	1692	1751	1869
70°	1532	1556	1629
75°	1350	1317	1365
80°	1173	1077	1029
85°	954	716	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.4
10°-20°	250.5	9.9
20°-30°	388.1	15.4
30°-40°	472.4	18.7
40°-50°	481.1	19.0
50°-60°	405.7	16.1
60°-70°	274.5	10.9
70°-80°	137.1	5.4
80°-90°	30.5	1.2
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°	724.6	28.7
0°-40°	1197.0	47.4
0°-60°	2083.9	82.5
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	898	899	901	905	907	85
15°	865	871	887	902	908	244
25°	802	814	842	870	882	370
35°	708	723	756	791	806	442
45°	581	592	626	658	670	447
55°	423	430	456	477	487	379
65°	266	261	275	287	294	262
75°	130	125	127	128	131	139
85°	31	26	23	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	900.8	900.8	902.3	903.8	905.4
5°	897.7	899.2	900.8	905.4	906.9
7.5°	893.0	894.6	899.2	905.4	908.5
10°	885.3	888.4	896.1	905.4	910.0
12.5°	876.0	880.7	893.0	903.8	910.0
15°	865.2	871.4	886.8	902.3	908.5
17.5°	852.9	860.6	879.1	896.1	903.8
20°	838.9	848.2	868.3	889.9	899.2
22.5°	820.4	832.8	857.5	882.2	893.0
25°	801.9	814.2	842.0	869.9	882.2
27.5°	781.8	795.7	825.0	855.9	868.3
30°	760.2	772.5	805.0	837.4	851.3
32.5°	735.4	747.8	781.8	815.8	831.2
35°	707.6	723.1	755.5	791.1	806.5
37.5°	678.3	692.2	727.7	761.7	775.6
40°	647.4	661.3	695.3	730.8	744.7
42.5°	614.9	628.8	661.3	695.3	710.7
45°	580.9	591.7	625.7	658.2	670.5
47.5°	545.4	553.1	585.6	616.5	628.8
50°	506.8	514.5	545.4	573.2	585.6
52.5°	465.1	471.2	500.6	525.3	539.2
55°	423.3	429.5	455.8	477.4	486.7
57.5°	381.6	384.7	407.9	429.5	438.8
60°	343.0	343.0	361.5	378.5	390.9
62.5°	298.2	302.8	316.7	333.7	338.4
65°	265.7	261.1	275.0	287.4	293.6
67.5°	228.7	225.6	234.8	245.7	248.7
70°	194.7	190.0	197.8	203.9	207.0
72.5°	159.1	157.6	160.7	165.3	166.9
75°	129.8	125.1	126.7	128.2	131.3
77.5°	103.5	95.8	97.3	95.8	97.3
80°	75.7	69.5	69.5	68.0	66.4
82.5°	51.0	47.9	44.8	41.7	40.2
85°	30.9	26.3	23.2	20.1	20.1
87.5°	12.4	9.3	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)