

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: P296632

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296632
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-LD5-25-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

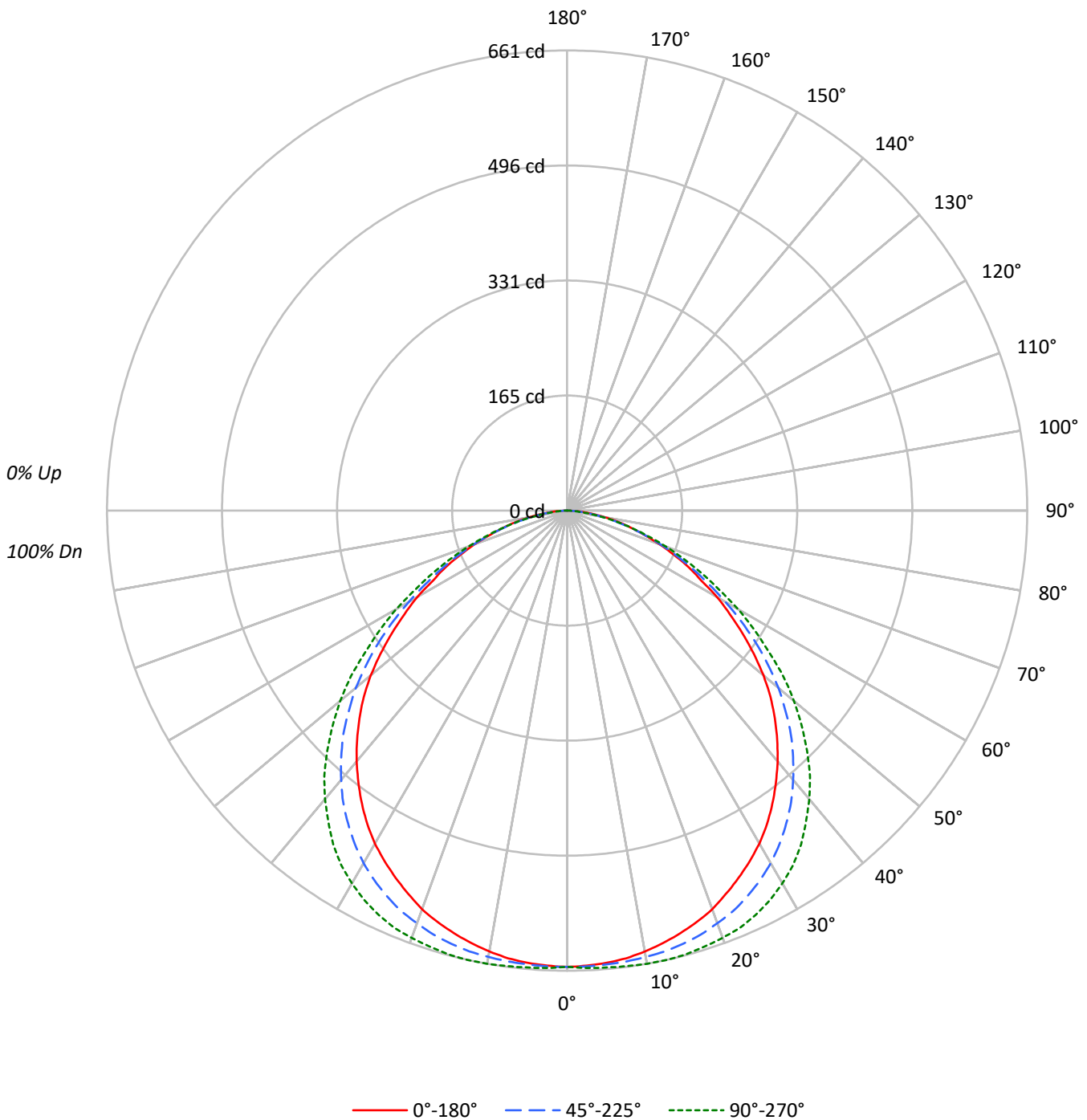
Input Watts (W): 19.344
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1764	1764	1764
5°	1761	1767	1780
10°	1757	1779	1806
15°	1751	1795	1839
20°	1745	1806	1871
25°	1730	1816	1903
30°	1716	1817	1922
35°	1689	1803	1925
40°	1652	1774	1900
45°	1606	1730	1854
50°	1541	1659	1781
55°	1443	1553	1658
60°	1341	1413	1528
65°	1229	1272	1358
70°	1113	1131	1183
75°	980	957	992
80°	852	783	748
85°	692	519	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.4
10°-20°	182.0	9.9
20°-30°	282.0	15.4
30°-40°	343.2	18.7
40°-50°	349.5	19.0
50°-60°	294.7	16.1
60°-70°	199.4	10.9
70°-80°	99.6	5.4
80°-90°	22.2	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°	526.4	28.7
0°-40°	869.6	47.4
0°-60°	1513.8	82.5
0°-90°	1835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	652	653	654	658	659	62
15°	628	633	644	656	660	177
25°	582	592	612	632	641	269
35°	514	525	549	575	586	321
45°	422	430	455	478	487	325
55°	308	312	331	347	354	275
65°	193	190	200	209	213	191
75°	94	91	92	93	95	101
85°	22	19	17	15	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.5	655.5	655.5	655.5	655.5
2.5°	654.3	654.3	655.5	656.6	657.7
5°	652.1	653.2	654.3	657.7	658.8
7.5°	648.7	649.9	653.2	657.7	660.0
10°	643.1	645.4	651.0	657.7	661.1
12.5°	636.4	639.8	648.7	656.6	661.1
15°	628.5	633.0	644.2	655.5	660.0
17.5°	619.6	625.2	638.6	651.0	656.6
20°	609.5	616.2	630.8	646.5	653.2
22.5°	596.0	605.0	622.9	640.9	648.7
25°	582.5	591.5	611.7	631.9	640.9
27.5°	567.9	578.0	599.3	621.8	630.8
30°	552.2	561.2	584.8	608.3	618.4
32.5°	534.3	543.2	567.9	592.6	603.8
35°	514.0	525.3	548.8	574.7	585.9
37.5°	492.7	502.8	528.6	553.3	563.4
40°	470.3	480.4	505.1	530.9	541.0
42.5°	446.7	456.8	480.4	505.1	516.3
45°	422.0	429.9	454.6	478.1	487.1
47.5°	396.2	401.8	425.4	447.8	456.8
50°	368.1	373.8	396.2	416.4	425.4
52.5°	337.8	342.3	363.7	381.6	391.7
55°	307.5	312.0	331.1	346.8	353.5
57.5°	277.2	279.5	296.3	312.0	318.8
60°	249.2	249.2	262.6	275.0	284.0
62.5°	216.6	220.0	230.1	242.4	245.8
65°	193.0	189.7	199.8	208.8	213.3
67.5°	166.1	163.9	170.6	178.5	180.7
70°	141.4	138.1	143.7	148.2	150.4
72.5°	115.6	114.5	116.7	120.1	121.2
75°	94.3	90.9	92.0	93.2	95.4
77.5°	75.2	69.6	70.7	69.6	70.7
80°	55.0	50.5	50.5	49.4	48.3
82.5°	37.0	34.8	32.5	30.3	29.2
85°	22.4	19.1	16.8	14.6	14.6
87.5°	9.0	6.7	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)