

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: P296669

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296669
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-L92765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848.0 lumens
Efficiency: N/A
Efficacy: 95.5 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

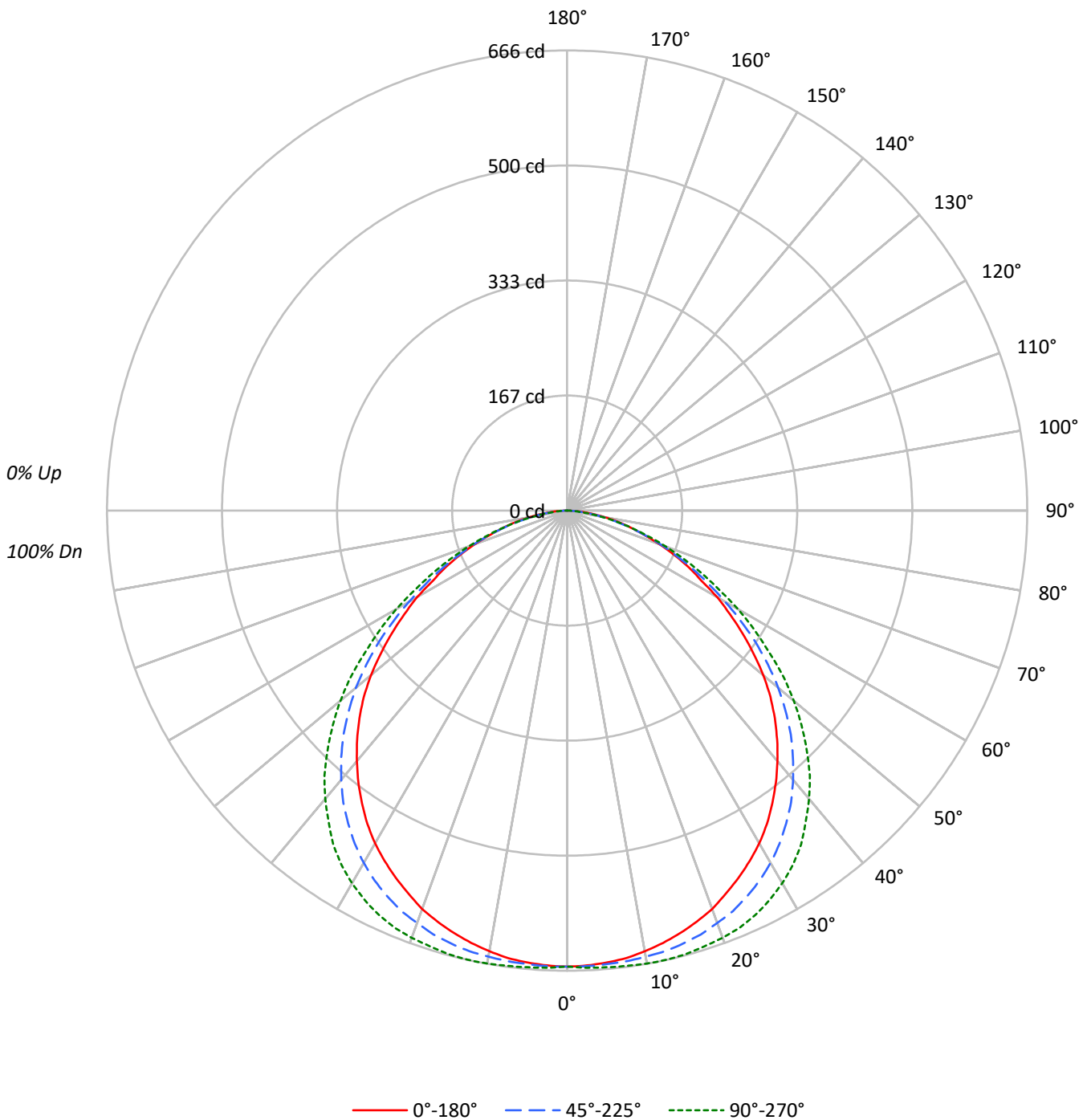
Input Watts (W): 19.344
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1776	1776	1776
5°	1774	1780	1792
10°	1770	1791	1819
15°	1763	1807	1852
20°	1758	1819	1884
25°	1742	1829	1916
30°	1728	1830	1935
35°	1701	1816	1938
40°	1664	1787	1914
45°	1617	1742	1867
50°	1552	1670	1793
55°	1453	1564	1671
60°	1350	1424	1539
65°	1238	1281	1368
70°	1120	1138	1192
75°	987	964	999
80°	859	789	753
85°	698	525	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.4
10°-20°	183.3	9.9
20°-30°	284.0	15.4
30°-40°	345.6	18.7
40°-50°	352.0	19.0
50°-60°	296.8	16.1
60°-70°	200.8	10.9
70°-80°	100.3	5.4
80°-90°	22.3	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°	530.1	28.7
0°-40°	875.7	47.4
0°-60°	1524.5	82.5
0°-90°	1848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	657	658	659	662	664	62
15°	633	638	649	660	665	179
25°	587	596	616	636	645	270
35°	518	529	553	579	590	324
45°	425	433	458	482	491	327
55°	310	314	333	349	356	277
65°	194	191	201	210	215	192
75°	95	92	93	94	96	102
85°	23	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°	660.1	660.1	660.1	660.1	660.1
2.5°	659.0	659.0	660.1	661.2	662.4
5°	656.7	657.9	659.0	662.4	663.5
7.5°	653.3	654.5	657.9	662.4	664.6
10°	647.7	649.9	655.6	662.4	665.8
12.5°	640.9	644.3	653.3	661.2	665.8
15°	633.0	637.5	648.8	660.1	664.6
17.5°	623.9	629.6	643.2	655.6	661.2
20°	613.8	620.6	635.2	651.1	657.9
22.5°	600.2	609.2	627.3	645.4	653.3
25°	586.6	595.7	616.0	636.4	645.4
27.5°	571.9	582.1	603.6	626.2	635.2
30°	556.1	565.2	588.9	612.6	622.8
32.5°	538.0	547.1	571.9	596.8	608.1
35°	517.7	529.0	552.7	578.7	590.0
37.5°	496.2	506.4	532.4	557.3	567.4
40°	473.6	483.8	508.6	534.6	544.8
42.5°	449.9	460.0	483.8	508.6	520.0
45°	425.0	432.9	457.8	481.5	490.6
47.5°	399.0	404.7	428.4	451.0	460.0
50°	370.7	376.4	399.0	419.4	428.4
52.5°	340.2	344.8	366.2	384.3	394.5
55°	309.7	314.2	333.4	349.3	356.1
57.5°	279.2	281.5	298.4	314.2	321.0
60°	250.9	250.9	264.5	276.9	286.0
62.5°	218.2	221.5	231.7	244.2	247.5
65°	194.4	191.0	201.2	210.2	214.8
67.5°	167.3	165.0	171.8	179.7	182.0
70°	142.4	139.0	144.7	149.2	151.5
72.5°	116.4	115.3	117.6	120.9	122.1
75°	94.9	91.6	92.7	93.8	96.1
77.5°	75.7	70.1	71.2	70.1	71.2
80°	55.4	50.9	50.9	49.7	48.6
82.5°	37.3	35.0	32.8	30.5	29.4
85°	22.6	19.2	17.0	14.7	14.7
87.5°	9.0	6.8	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)