

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: P296667

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296667
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-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: 1766.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

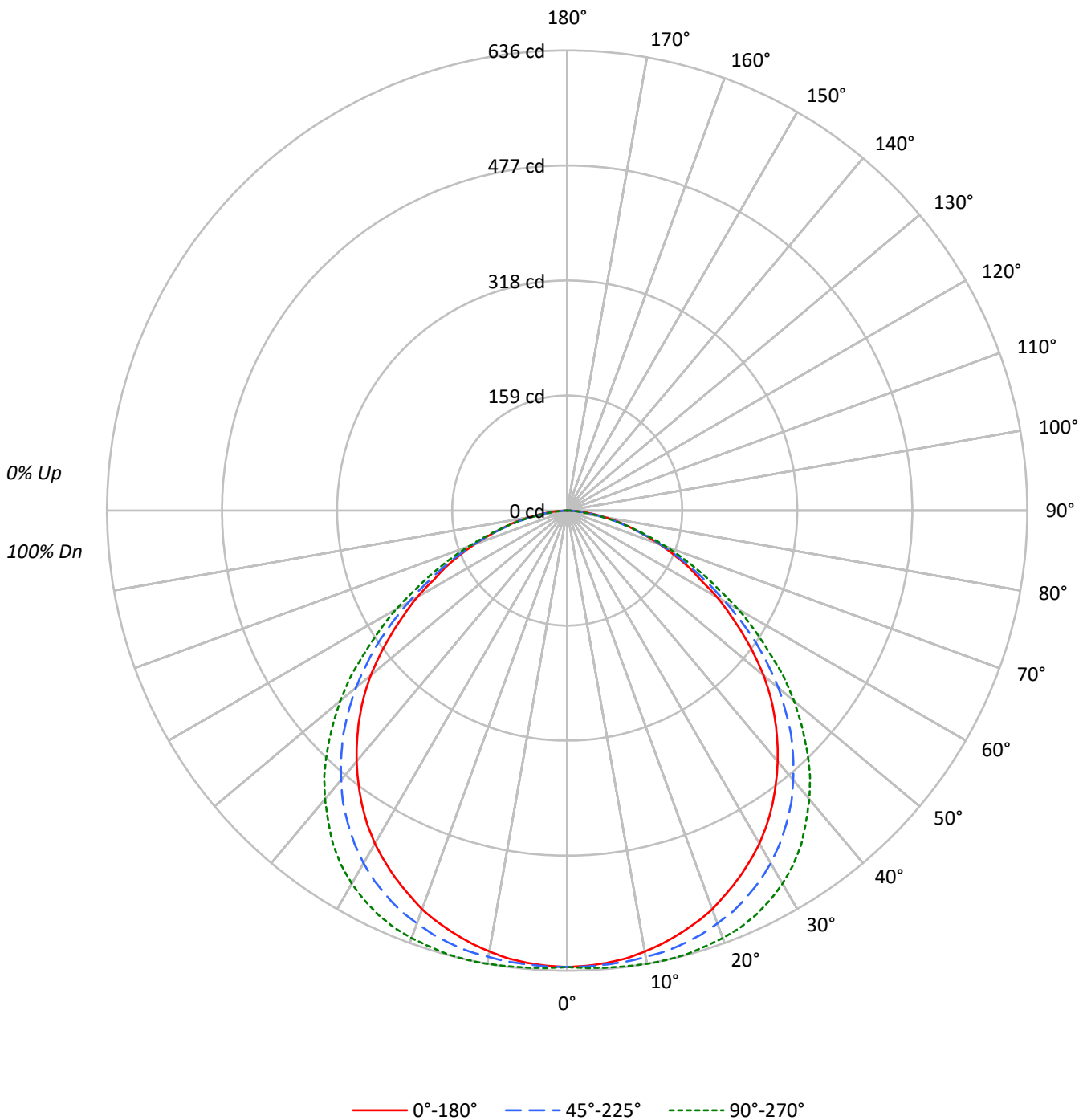
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1697	1697	1697
5°	1695	1701	1713
10°	1691	1712	1738
15°	1685	1727	1769
20°	1680	1739	1800
25°	1665	1748	1831
30°	1651	1749	1849
35°	1625	1735	1852
40°	1590	1708	1829
45°	1545	1665	1784
50°	1483	1596	1714
55°	1389	1495	1597
60°	1291	1361	1471
65°	1183	1224	1307
70°	1071	1088	1138
75°	943	921	954
80°	820	753	719
85°	667	500	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.4
10°-20°	175.2	9.9
20°-30°	271.4	15.4
30°-40°	330.3	18.7
40°-50°	336.4	19.0
50°-60°	283.7	16.1
60°-70°	191.9	10.9
70°-80°	95.9	5.4
80°-90°	21.3	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°	506.6	28.7
0°-40°	836.9	47.4
0°-60°	1456.9	82.5
0°-90°	1766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	628	629	630	633	634	60
15°	605	609	620	631	635	171
25°	561	569	589	608	617	258
35°	495	506	528	553	564	309
45°	406	414	438	460	469	313
55°	296	300	319	334	340	265
65°	186	182	192	201	205	184
75°	91	88	89	90	92	97
85°	22	18	16	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.8	630.8	630.8	630.8	630.8
2.5°	629.7	629.7	630.8	631.9	633.0
5°	627.6	628.7	629.7	633.0	634.1
7.5°	624.3	625.4	628.7	633.0	635.1
10°	618.9	621.1	626.5	633.0	636.2
12.5°	612.5	615.7	624.3	631.9	636.2
15°	604.9	609.2	620.0	630.8	635.1
17.5°	596.3	601.7	614.6	626.5	631.9
20°	586.5	593.0	607.1	622.2	628.7
22.5°	573.6	582.2	599.5	616.8	624.3
25°	560.6	569.3	588.7	608.1	616.8
27.5°	546.6	556.3	576.8	598.4	607.1
30°	531.4	540.1	562.8	585.5	595.2
32.5°	514.2	522.8	546.6	570.3	581.1
35°	494.7	505.5	528.2	553.0	563.9
37.5°	474.2	483.9	508.8	532.5	542.2
40°	452.6	462.3	486.1	510.9	520.6
42.5°	429.9	439.6	462.3	486.1	496.9
45°	406.1	413.7	437.5	460.2	468.8
47.5°	381.3	386.7	409.4	431.0	439.6
50°	354.3	359.7	381.3	400.7	409.4
52.5°	325.1	329.5	350.0	367.3	377.0
55°	296.0	300.3	318.7	333.8	340.3
57.5°	266.8	269.0	285.2	300.3	306.8
60°	239.8	239.8	252.8	264.6	273.3
62.5°	208.5	211.7	221.4	233.3	236.6
65°	185.8	182.5	192.3	200.9	205.2
67.5°	159.9	157.7	164.2	171.7	173.9
70°	136.1	132.9	138.3	142.6	144.7
72.5°	111.3	110.2	112.3	115.6	116.7
75°	90.7	87.5	88.6	89.7	91.8
77.5°	72.4	67.0	68.1	67.0	68.1
80°	52.9	48.6	48.6	47.5	46.4
82.5°	35.6	33.5	31.3	29.2	28.1
85°	21.6	18.4	16.2	14.0	14.0
87.5°	8.6	6.5	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)