

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: P296668

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296668
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-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1811.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

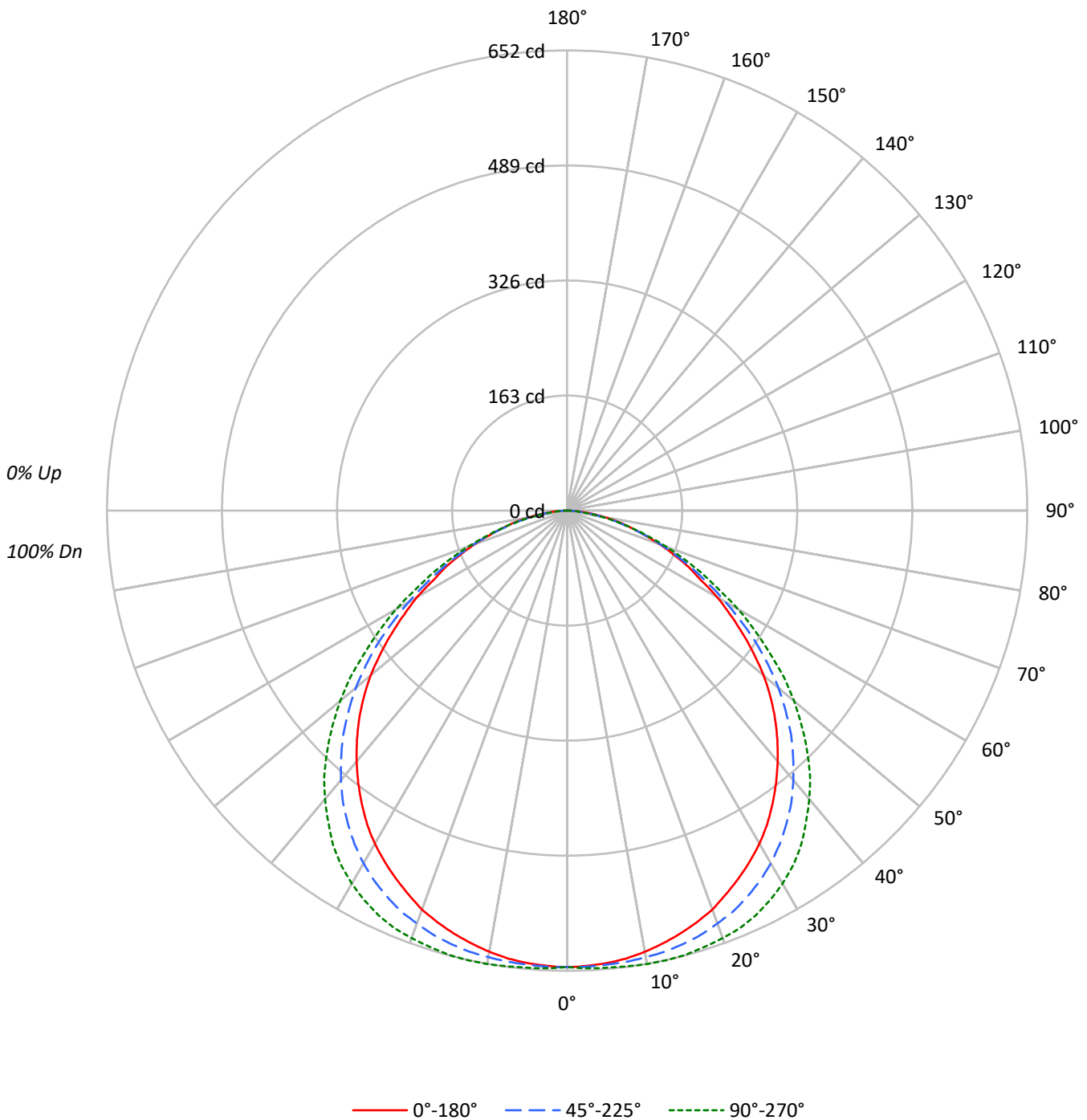
Input Watts (W): 19.251
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1741	1741	1741
5°	1739	1744	1756
10°	1734	1756	1783
15°	1728	1771	1814
20°	1723	1783	1846
25°	1707	1792	1878
30°	1693	1793	1896
35°	1667	1780	1899
40°	1630	1751	1875
45°	1585	1707	1829
50°	1521	1637	1757
55°	1424	1533	1637
60°	1323	1395	1508
65°	1213	1256	1340
70°	1098	1116	1168
75°	967	944	979
80°	841	772	738
85°	685	513	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	3.4
10°-20°	179.6	9.9
20°-30°	278.3	15.4
30°-40°	338.7	18.7
40°-50°	344.9	19.0
50°-60°	290.9	16.1
60°-70°	196.8	10.9
70°-80°	98.3	5.4
80°-90°	21.9	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°	519.5	28.7
0°-40°	858.2	47.4
0°-60°	1494.0	82.5
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	644	645	646	649	650	61
15°	620	625	636	647	651	175
25°	575	584	604	624	632	265
35°	507	518	542	567	578	317
45°	416	424	449	472	481	321
55°	304	308	327	342	349	272
65°	190	187	197	206	210	188
75°	93	90	91	92	94	100
85°	22	19	17	14	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.9	646.9	646.9	646.9	646.9
2.5°	645.8	645.8	646.9	648.0	649.1
5°	643.6	644.7	645.8	649.1	650.2
7.5°	640.2	641.4	644.7	649.1	651.3
10°	634.7	636.9	642.5	649.1	652.4
12.5°	628.1	631.4	640.2	648.0	652.4
15°	620.3	624.7	635.8	646.9	651.3
17.5°	611.4	617.0	630.3	642.5	648.0
20°	601.5	608.1	622.5	638.0	644.7
22.5°	588.2	597.0	614.8	632.5	640.2
25°	574.9	583.8	603.7	623.6	632.5
27.5°	560.5	570.5	591.5	613.7	622.5
30°	545.0	553.8	577.1	600.4	610.3
32.5°	527.3	536.1	560.5	584.9	595.9
35°	507.3	518.4	541.7	567.1	578.2
37.5°	486.3	496.2	521.7	546.1	556.1
40°	464.1	474.1	498.5	523.9	533.9
42.5°	440.9	450.8	474.1	498.5	509.5
45°	416.5	424.2	448.6	471.9	480.7
47.5°	391.0	396.6	419.8	442.0	450.8
50°	363.3	368.9	391.0	411.0	419.8
52.5°	333.4	337.8	358.9	376.6	386.6
55°	303.5	307.9	326.8	342.3	348.9
57.5°	273.6	275.8	292.4	307.9	314.6
60°	245.9	245.9	259.2	271.4	280.2
62.5°	213.8	217.1	227.1	239.3	242.6
65°	190.5	187.2	197.2	206.0	210.5
67.5°	163.9	161.7	168.4	176.1	178.3
70°	139.6	136.2	141.8	146.2	148.4
72.5°	114.1	113.0	115.2	118.5	119.6
75°	93.0	89.7	90.8	91.9	94.2
77.5°	74.2	68.7	69.8	68.7	69.8
80°	54.3	49.8	49.8	48.7	47.6
82.5°	36.6	34.3	32.1	29.9	28.8
85°	22.2	18.8	16.6	14.4	14.4
87.5°	8.9	6.6	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)