

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: P296451

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L82765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4377.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

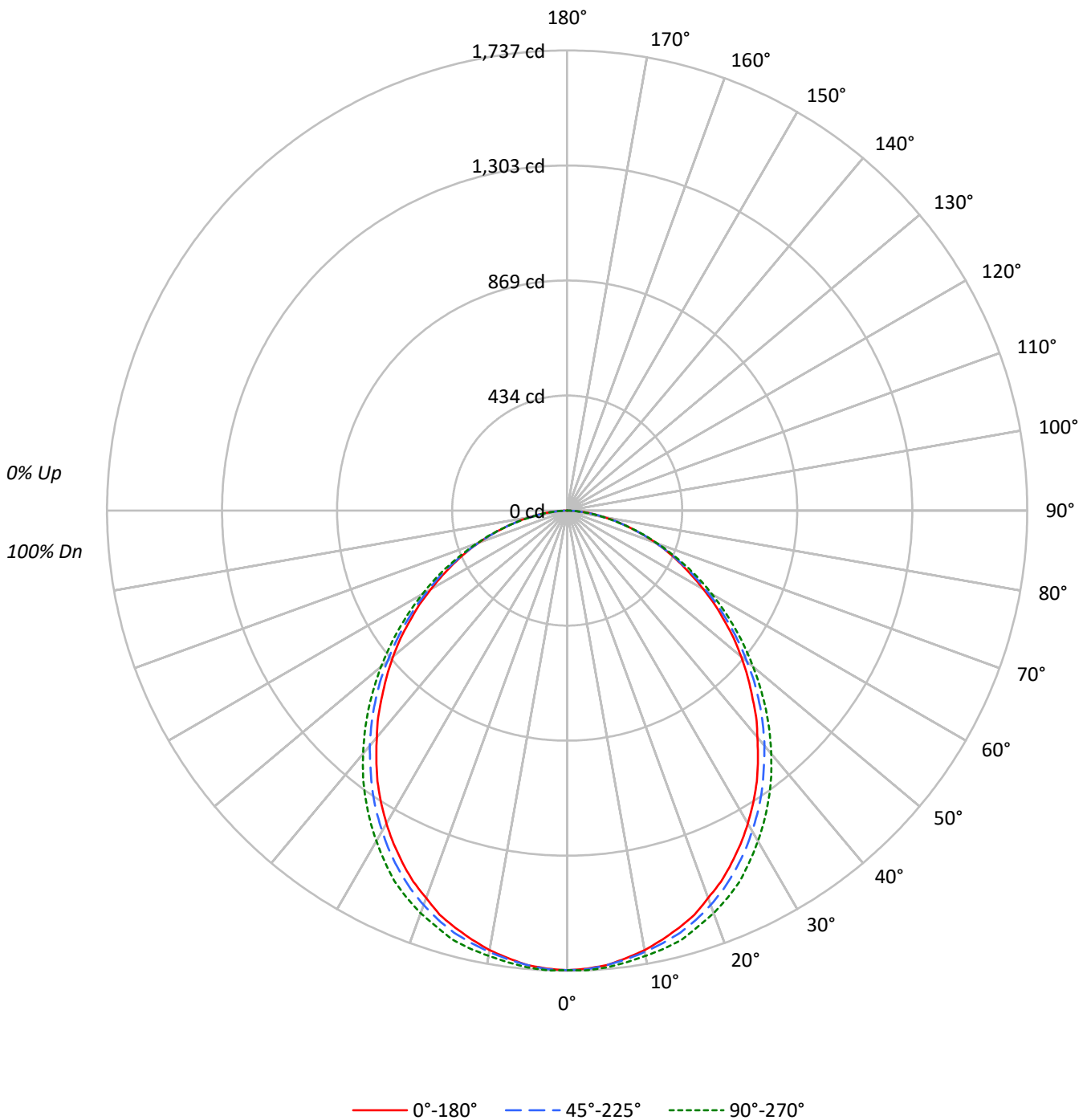
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100									100																			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85									85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71									71																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61									61																			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52									52																			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46									46																			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40									40																			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36									36																			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32									32																			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29									29																			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26									26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4669	4669	4669
5°	4651	4651	4675
10°	4604	4621	4663
15°	4542	4596	4669
20°	4456	4537	4631
25°	4361	4452	4581
30°	4238	4340	4475
35°	4101	4215	4359
40°	3925	4071	4209
45°	3754	3903	4036
50°	3591	3709	3837
55°	3399	3502	3624
60°	3195	3277	3394
65°	3002	3057	3154
70°	2799	2799	2851
75°	2496	2496	2496
80°	2199	2131	2131
85°	1751	1686	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	3.7
10°-20°	465.2	10.6
20°-30°	691.0	15.8
30°-40°	802.0	18.3
40°-50°	789.7	18.0
50°-60°	668.3	15.3
60°-70°	476.6	10.9
70°-80°	256.1	5.9
80°-90°	64.5	1.5
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°	1319.8	30.2
0°-40°	2121.8	48.5
0°-60°	3579.8	81.8
0°-90°	4377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1722	1722	1722	1728	1731	163
15°	1630	1635	1650	1665	1676	459
25°	1469	1473	1499	1528	1543	676
35°	1248	1250	1283	1314	1327	779
45°	986	993	1026	1050	1061	763
55°	724	727	746	766	772	649
65°	471	471	480	489	495	468
75°	240	238	240	240	240	258
85°	57	55	55	50	50	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1730.6	1730.6	1732.8	1734.9	1737.1
5°	1721.9	1721.9	1721.9	1728.4	1730.6
7.5°	1704.4	1706.6	1708.8	1715.3	1719.7
10°	1684.8	1686.9	1691.3	1702.2	1706.6
12.5°	1658.6	1665.1	1671.7	1686.9	1693.5
15°	1630.2	1634.6	1649.8	1665.1	1676.0
17.5°	1599.6	1601.8	1619.3	1641.1	1645.5
20°	1556.0	1562.5	1584.4	1606.2	1617.1
22.5°	1516.7	1521.1	1545.1	1573.5	1582.2
25°	1468.7	1473.1	1499.3	1527.6	1542.9
27.5°	1418.5	1422.9	1451.2	1481.8	1492.7
30°	1364.0	1368.3	1396.7	1429.4	1440.3
32.5°	1307.2	1311.6	1342.1	1370.5	1385.8
35°	1248.3	1250.5	1283.2	1313.8	1326.9
37.5°	1182.8	1189.4	1219.9	1250.5	1265.7
40°	1117.3	1123.9	1158.8	1187.2	1198.1
42.5°	1056.2	1065.0	1093.3	1119.5	1130.4
45°	986.4	993.0	1025.7	1049.7	1060.6
47.5°	923.1	929.7	958.0	982.0	988.6
50°	857.7	862.0	886.0	907.8	916.6
52.5°	792.2	794.4	816.2	838.0	844.6
55°	724.5	726.7	746.4	766.0	772.5
57.5°	661.2	661.2	678.7	694.0	700.5
60°	593.6	593.6	608.9	624.1	630.7
62.5°	530.3	530.3	545.6	556.5	565.2
65°	471.4	471.4	480.1	488.8	495.4
67.5°	414.6	408.1	416.8	427.7	425.6
70°	355.7	349.2	355.7	360.1	362.3
72.5°	296.8	292.4	296.8	299.0	303.3
75°	240.1	237.9	240.1	240.1	240.1
77.5°	192.0	185.5	189.9	187.7	185.5
80°	141.9	139.7	137.5	135.3	137.5
82.5°	98.2	96.0	96.0	91.7	91.7
85°	56.7	54.6	54.6	50.2	50.2
87.5°	21.8	21.8	19.6	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)