

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: P296620

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296620
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-LD5-44-RDP-UNV-L82765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3613.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

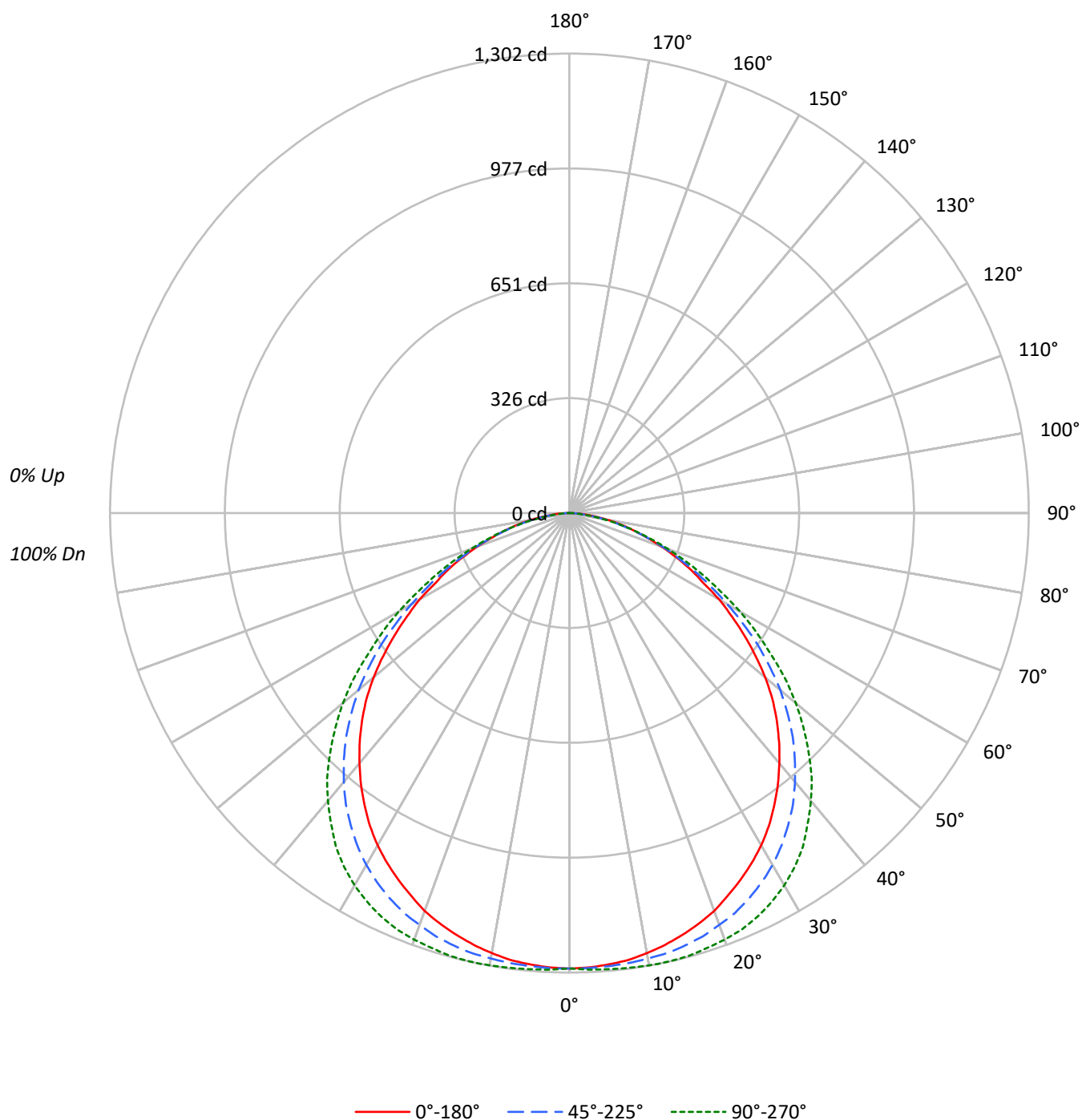
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3473	3473	3473
5°	3468	3480	3504
10°	3460	3502	3557
15°	3448	3534	3620
20°	3436	3557	3683
25°	3405	3576	3746
30°	3379	3578	3783
35°	3325	3550	3790
40°	3253	3494	3742
45°	3162	3406	3650
50°	3034	3266	3506
55°	2841	3058	3266
60°	2640	2783	3009
65°	2420	2505	2674
70°	2190	2226	2330
75°	1930	1884	1953
80°	1678	1540	1472
85°	1365	1022	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.4
10°-20°	358.3	9.9
20°-30°	555.2	15.4
30°-40°	675.7	18.7
40°-50°	688.2	19.0
50°-60°	580.3	16.1
60°-70°	392.6	10.9
70°-80°	196.2	5.4
80°-90°	43.6	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°	1036.4	28.7
0°-40°	1712.1	47.4
0°-60°	2980.6	82.5
0°-90°	3613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1284	1286	1288	1295	1297	122
15°	1238	1246	1268	1291	1299	349
25°	1147	1165	1204	1244	1262	529
35°	1012	1034	1081	1132	1154	633
45°	831	846	895	941	959	640
55°	606	614	652	683	696	542
65°	380	374	393	411	420	375
75°	186	179	181	183	188	199
85°	44	38	33	29	29	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.6	1290.6	1290.6	1290.6	1290.6
2.5°	1288.4	1288.4	1290.6	1292.8	1295.0
5°	1283.9	1286.2	1288.4	1295.0	1297.2
7.5°	1277.3	1279.5	1286.2	1295.0	1299.4
10°	1266.3	1270.7	1281.7	1295.0	1301.6
12.5°	1253.0	1259.6	1277.3	1292.8	1301.6
15°	1237.5	1246.4	1268.5	1290.6	1299.4
17.5°	1219.9	1230.9	1257.4	1281.7	1292.8
20°	1200.0	1213.2	1242.0	1272.9	1286.2
22.5°	1173.5	1191.1	1226.5	1261.8	1277.3
25°	1146.9	1164.6	1204.4	1244.2	1261.8
27.5°	1118.2	1138.1	1180.1	1224.3	1242.0
30°	1087.3	1104.9	1151.4	1197.8	1217.6
32.5°	1051.9	1069.6	1118.2	1166.8	1188.9
35°	1012.1	1034.2	1080.6	1131.5	1153.6
37.5°	970.1	990.0	1040.9	1089.5	1109.4
40°	925.9	945.8	994.5	1045.3	1065.2
42.5°	879.5	899.4	945.8	994.5	1016.5
45°	830.9	846.4	895.0	941.4	959.1
47.5°	780.1	791.1	837.5	881.7	899.4
50°	724.8	735.9	780.1	819.9	837.5
52.5°	665.2	674.0	716.0	751.4	771.3
55°	605.5	614.3	651.9	682.9	696.1
57.5°	545.8	550.3	583.4	614.3	627.6
60°	490.6	490.6	517.1	541.4	559.1
62.5°	426.5	433.1	453.0	477.3	484.0
65°	380.1	373.5	393.4	411.0	419.9
67.5°	327.1	322.6	335.9	351.4	355.8
70°	278.4	271.8	282.9	291.7	296.1
72.5°	227.6	225.4	229.8	236.5	238.7
75°	185.6	179.0	181.2	183.4	187.8
77.5°	148.1	137.0	139.2	137.0	139.2
80°	108.3	99.4	99.4	97.2	95.0
82.5°	72.9	68.5	64.1	59.7	57.5
85°	44.2	37.6	33.1	28.7	28.7
87.5°	17.7	13.3	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)