

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: P296623

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296623
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3708.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

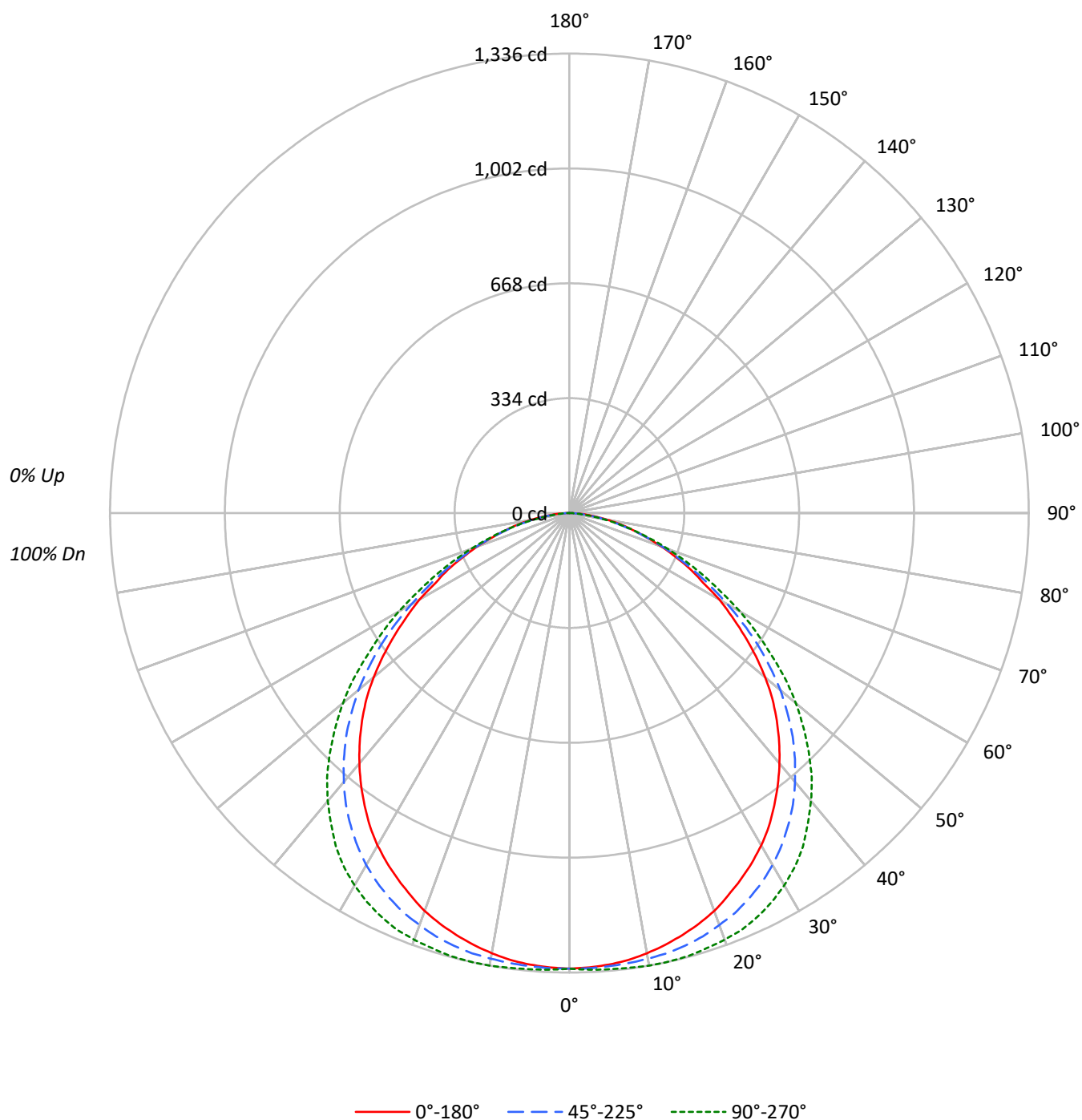
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3564	3564	3564
5°	3559	3572	3596
10°	3551	3594	3650
15°	3538	3627	3715
20°	3527	3650	3780
25°	3495	3670	3845
30°	3467	3672	3883
35°	3412	3643	3889
40°	3338	3585	3840
45°	3245	3495	3746
50°	3114	3352	3599
55°	2915	3139	3352
60°	2710	2856	3088
65°	2484	2571	2744
70°	2249	2284	2391
75°	1981	1934	2005
80°	1722	1582	1511
85°	1402	1050	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.4
10°-20°	367.8	9.9
20°-30°	569.8	15.4
30°-40°	693.4	18.7
40°-50°	706.3	19.0
50°-60°	595.6	16.1
60°-70°	402.9	10.9
70°-80°	201.3	5.4
80°-90°	44.8	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°	1063.7	28.7
0°-40°	1757.1	47.4
0°-60°	3059.0	82.5
0°-90°	3708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1318	1320	1322	1329	1331	125
15°	1270	1279	1302	1324	1334	359
25°	1177	1195	1236	1277	1295	543
35°	1039	1061	1109	1161	1184	649
45°	853	869	918	966	984	657
55°	621	630	669	701	714	556
65°	390	383	404	422	431	385
75°	190	184	186	188	193	204
85°	45	39	34	30	30	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.5	1324.5	1324.5	1324.5	1324.5
2.5°	1322.2	1322.2	1324.5	1326.8	1329.0
5°	1317.7	1320.0	1322.2	1329.0	1331.3
7.5°	1310.9	1313.2	1320.0	1329.0	1333.6
10°	1299.6	1304.1	1315.4	1329.0	1335.9
12.5°	1286.0	1292.8	1310.9	1326.8	1335.9
15°	1270.1	1279.2	1301.8	1324.5	1333.6
17.5°	1251.9	1263.3	1290.5	1315.4	1326.8
20°	1231.5	1245.1	1274.6	1306.4	1320.0
22.5°	1204.3	1222.5	1258.7	1295.0	1310.9
25°	1177.1	1195.2	1236.1	1276.9	1295.0
27.5°	1147.6	1168.0	1211.1	1256.5	1274.6
30°	1115.9	1134.0	1181.6	1229.3	1249.7
32.5°	1079.6	1097.7	1147.6	1197.5	1220.2
35°	1038.7	1061.4	1109.1	1161.2	1183.9
37.5°	995.7	1016.1	1068.2	1118.1	1138.5
40°	950.3	970.7	1020.6	1072.8	1093.2
42.5°	902.7	923.1	970.7	1020.6	1043.3
45°	852.8	868.6	918.5	966.2	984.3
47.5°	800.6	811.9	859.6	904.9	923.1
50°	743.9	755.2	800.6	841.4	859.6
52.5°	682.7	691.7	734.8	771.1	791.5
55°	621.4	630.5	669.1	700.8	714.4
57.5°	560.2	564.7	598.8	630.5	644.1
60°	503.5	503.5	530.7	555.7	573.8
62.5°	437.7	444.5	464.9	489.9	496.7
65°	390.1	383.3	403.7	421.8	430.9
67.5°	335.7	331.1	344.7	360.6	365.1
70°	285.8	279.0	290.3	299.4	303.9
72.5°	233.6	231.3	235.9	242.7	244.9
75°	190.5	183.7	186.0	188.2	192.8
77.5°	152.0	140.6	142.9	140.6	142.9
80°	111.1	102.1	102.1	99.8	97.5
82.5°	74.8	70.3	65.8	61.2	59.0
85°	45.4	38.6	34.0	29.5	29.5
87.5°	18.1	13.6	11.3	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)