

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: P296622

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296622
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3698.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

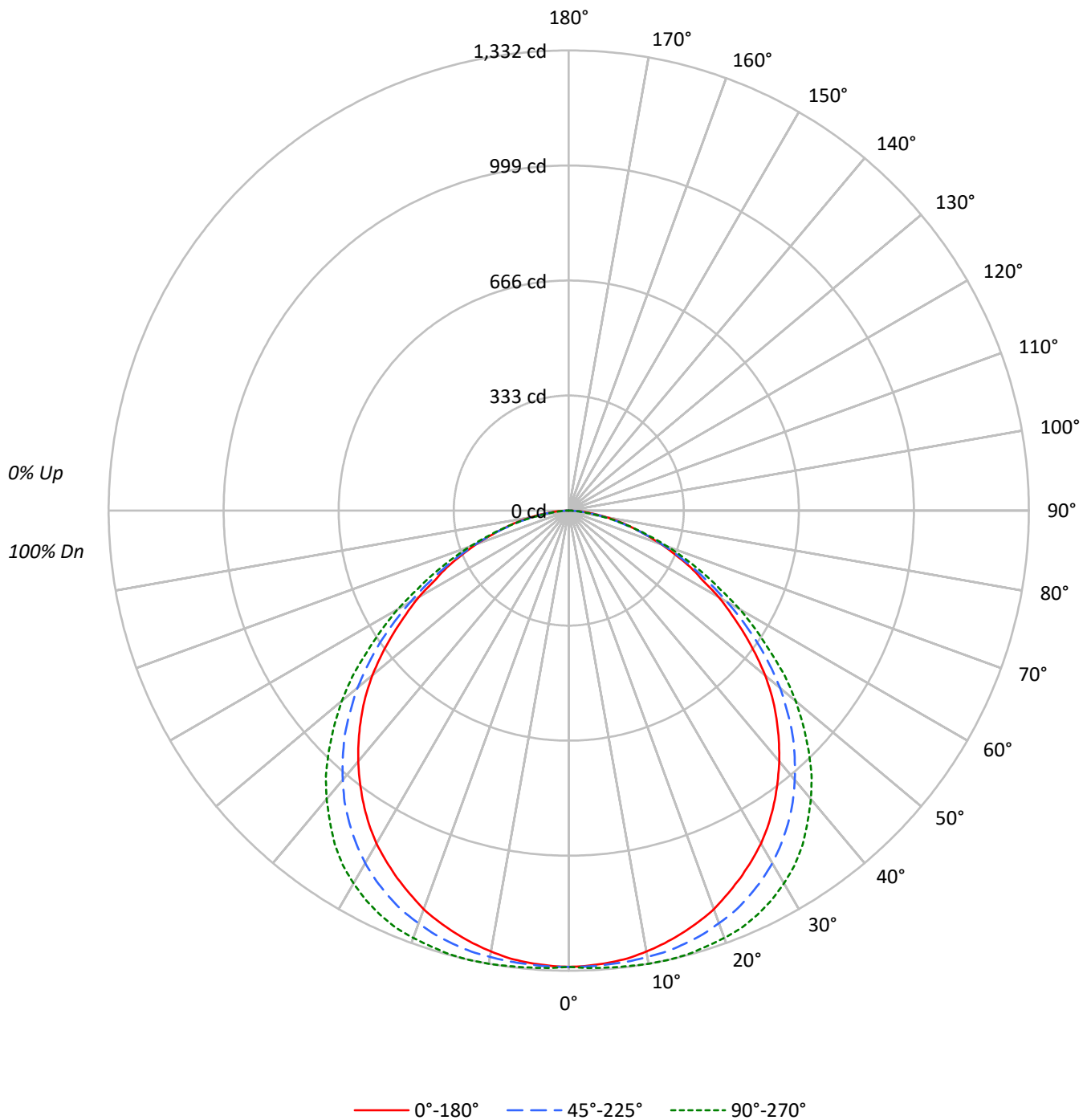
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3555	3555	3555
5°	3550	3562	3586
10°	3542	3585	3640
15°	3529	3617	3705
20°	3517	3640	3770
25°	3486	3660	3835
30°	3458	3662	3873
35°	3403	3634	3879
40°	3329	3575	3830
45°	3237	3486	3736
50°	3106	3342	3589
55°	2908	3131	3343
60°	2702	2849	3080
65°	2477	2564	2737
70°	2242	2278	2385
75°	1975	1929	1999
80°	1717	1578	1508
85°	1396	1047	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.4
10°-20°	366.8	9.9
20°-30°	568.2	15.4
30°-40°	691.6	18.7
40°-50°	704.4	19.0
50°-60°	594.0	16.1
60°-70°	401.8	10.9
70°-80°	200.8	5.4
80°-90°	44.7	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°	1060.8	28.7
0°-40°	1752.4	47.4
0°-60°	3050.7	82.5
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1314	1316	1319	1326	1328	125
15°	1267	1276	1298	1321	1330	358
25°	1174	1192	1233	1273	1292	541
35°	1036	1059	1106	1158	1181	648
45°	850	866	916	964	982	655
55°	620	629	667	699	712	554
65°	389	382	403	421	430	384
75°	190	183	186	188	192	204
85°	45	38	34	29	29	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.9	1320.9	1320.9	1320.9	1320.9
2.5°	1318.7	1318.7	1320.9	1323.2	1325.5
5°	1314.2	1316.4	1318.7	1325.5	1327.7
7.5°	1307.4	1309.6	1316.4	1325.5	1330.0
10°	1296.1	1300.6	1311.9	1325.5	1332.2
12.5°	1282.5	1289.3	1307.4	1323.2	1332.2
15°	1266.7	1275.7	1298.3	1320.9	1330.0
17.5°	1248.6	1259.9	1287.0	1311.9	1323.2
20°	1228.2	1241.8	1271.2	1302.8	1316.4
22.5°	1201.1	1219.2	1255.3	1291.5	1307.4
25°	1173.9	1192.0	1232.7	1273.4	1291.5
27.5°	1144.5	1164.9	1207.8	1253.1	1271.2
30°	1112.8	1130.9	1178.4	1225.9	1246.3
32.5°	1076.7	1094.8	1144.5	1194.3	1216.9
35°	1035.9	1058.6	1106.1	1158.1	1180.7
37.5°	993.0	1013.3	1065.3	1115.1	1135.5
40°	947.7	968.1	1017.8	1069.9	1090.2
42.5°	900.2	920.6	968.1	1017.8	1040.5
45°	850.5	866.3	916.1	963.6	981.7
47.5°	798.4	809.8	857.3	902.5	920.6
50°	741.9	753.2	798.4	839.2	857.3
52.5°	680.8	689.9	732.8	769.0	789.4
55°	619.8	628.8	667.3	698.9	712.5
57.5°	558.7	563.2	597.1	628.8	642.4
60°	502.1	502.1	529.3	554.2	572.3
62.5°	436.5	443.3	463.7	488.6	495.4
65°	389.0	382.3	402.6	420.7	429.8
67.5°	334.8	330.2	343.8	359.6	364.2
70°	285.0	278.2	289.5	298.6	303.1
72.5°	233.0	230.7	235.2	242.0	244.3
75°	190.0	183.2	185.5	187.7	192.3
77.5°	151.5	140.2	142.5	140.2	142.5
80°	110.8	101.8	101.8	99.5	97.3
82.5°	74.6	70.1	65.6	61.1	58.8
85°	45.2	38.5	33.9	29.4	29.4
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)