

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: P296624

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296624
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

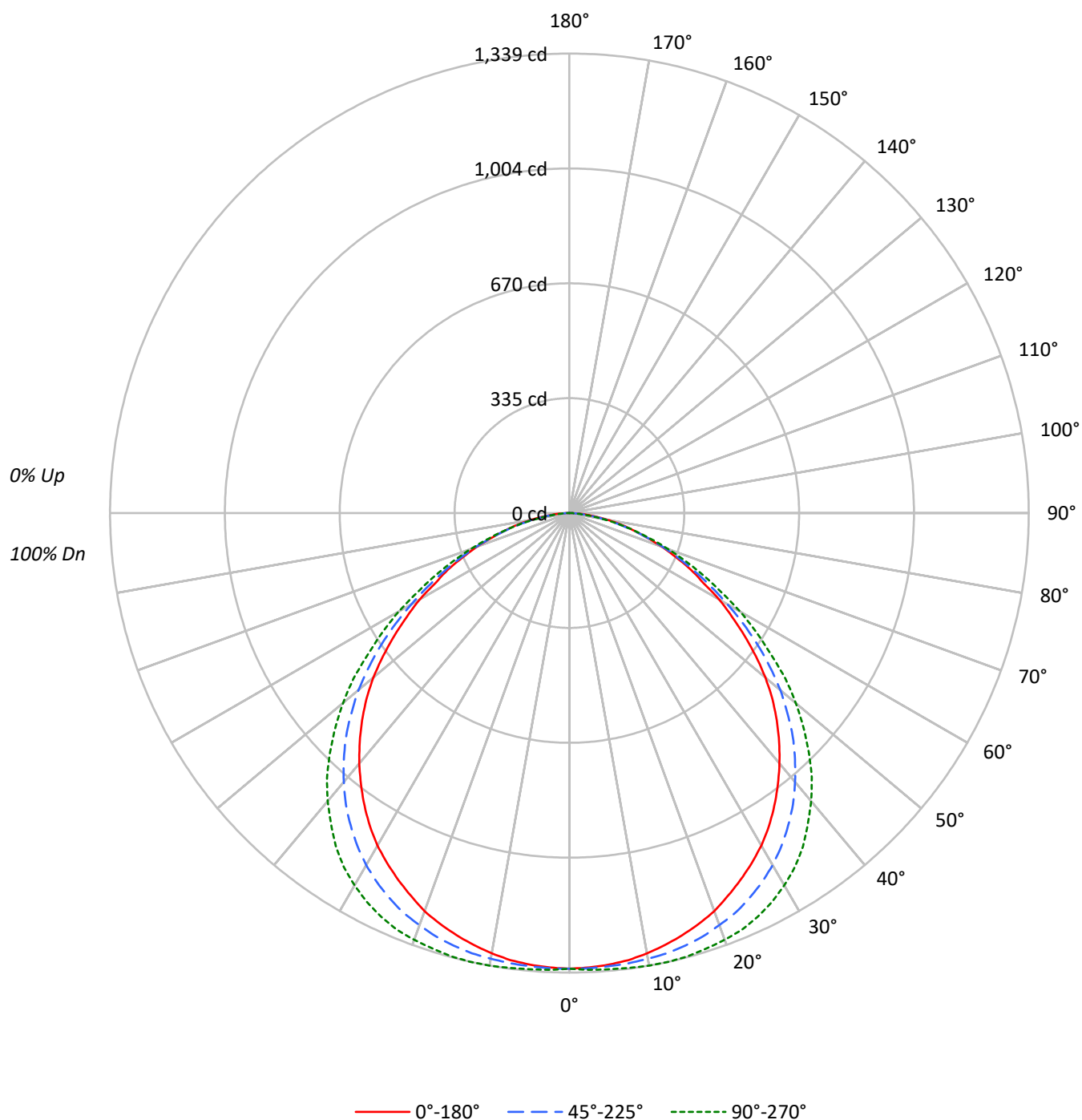
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3573	3573	3573
5°	3568	3581	3605
10°	3560	3603	3659
15°	3547	3636	3724
20°	3535	3659	3789
25°	3503	3679	3855
30°	3476	3681	3892
35°	3421	3652	3899
40°	3346	3594	3849
45°	3253	3504	3755
50°	3122	3360	3607
55°	2922	3147	3360
60°	2716	2863	3096
65°	2490	2577	2751
70°	2254	2290	2397
75°	1986	1938	2009
80°	1726	1585	1516
85°	1405	1053	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.4
10°-20°	368.7	9.9
20°-30°	571.2	15.4
30°-40°	695.1	18.7
40°-50°	708.0	19.0
50°-60°	597.0	16.1
60°-70°	403.9	10.9
70°-80°	201.8	5.4
80°-90°	44.9	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°	1066.3	28.7
0°-40°	1761.4	47.4
0°-60°	3066.4	82.5
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1321	1323	1326	1332	1334	126
15°	1273	1282	1305	1328	1337	359
25°	1180	1198	1239	1280	1298	544
35°	1041	1064	1112	1164	1187	651
45°	855	871	921	968	987	658
55°	623	632	671	702	716	557
65°	391	384	405	423	432	386
75°	191	184	186	189	193	205
85°	46	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°	1327.7	1327.7	1327.7	1327.7	1327.7
2.5°	1325.5	1325.5	1327.7	1330.0	1332.3
5°	1320.9	1323.2	1325.5	1332.3	1334.5
7.5°	1314.1	1316.4	1323.2	1332.3	1336.8
10°	1302.7	1307.3	1318.6	1332.3	1339.1
12.5°	1289.1	1295.9	1314.1	1330.0	1339.1
15°	1273.2	1282.3	1305.0	1327.7	1336.8
17.5°	1255.0	1266.3	1293.6	1318.6	1330.0
20°	1234.5	1248.2	1277.7	1309.5	1323.2
22.5°	1207.2	1225.4	1261.8	1298.2	1314.1
25°	1179.9	1198.1	1239.1	1280.0	1298.2
27.5°	1150.4	1170.9	1214.0	1259.5	1277.7
30°	1118.6	1136.8	1184.5	1232.2	1252.7
32.5°	1082.2	1100.4	1150.4	1200.4	1223.1
35°	1041.3	1064.0	1111.7	1164.0	1186.8
37.5°	998.1	1018.5	1070.8	1120.8	1141.3
40°	952.6	973.1	1023.1	1075.4	1095.8
42.5°	904.9	925.3	973.1	1023.1	1045.8
45°	854.8	870.8	920.8	968.5	986.7
47.5°	802.5	813.9	861.7	907.1	925.3
50°	745.7	757.1	802.5	843.5	861.7
52.5°	684.3	693.4	736.6	773.0	793.5
55°	622.9	632.0	670.7	702.5	716.2
57.5°	561.6	566.1	600.2	632.0	645.7
60°	504.7	504.7	532.0	557.0	575.2
62.5°	438.8	445.6	466.1	491.1	497.9
65°	391.0	384.2	404.7	422.9	432.0
67.5°	336.5	331.9	345.6	361.5	366.0
70°	286.5	279.6	291.0	300.1	304.6
72.5°	234.2	231.9	236.4	243.3	245.5
75°	191.0	184.2	186.4	188.7	193.2
77.5°	152.3	141.0	143.2	141.0	143.2
80°	111.4	102.3	102.3	100.0	97.8
82.5°	75.0	70.5	65.9	61.4	59.1
85°	45.5	38.6	34.1	29.6	29.6
87.5°	18.2	13.6	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)