

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: P296569

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296569
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-L83050-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: 3770.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

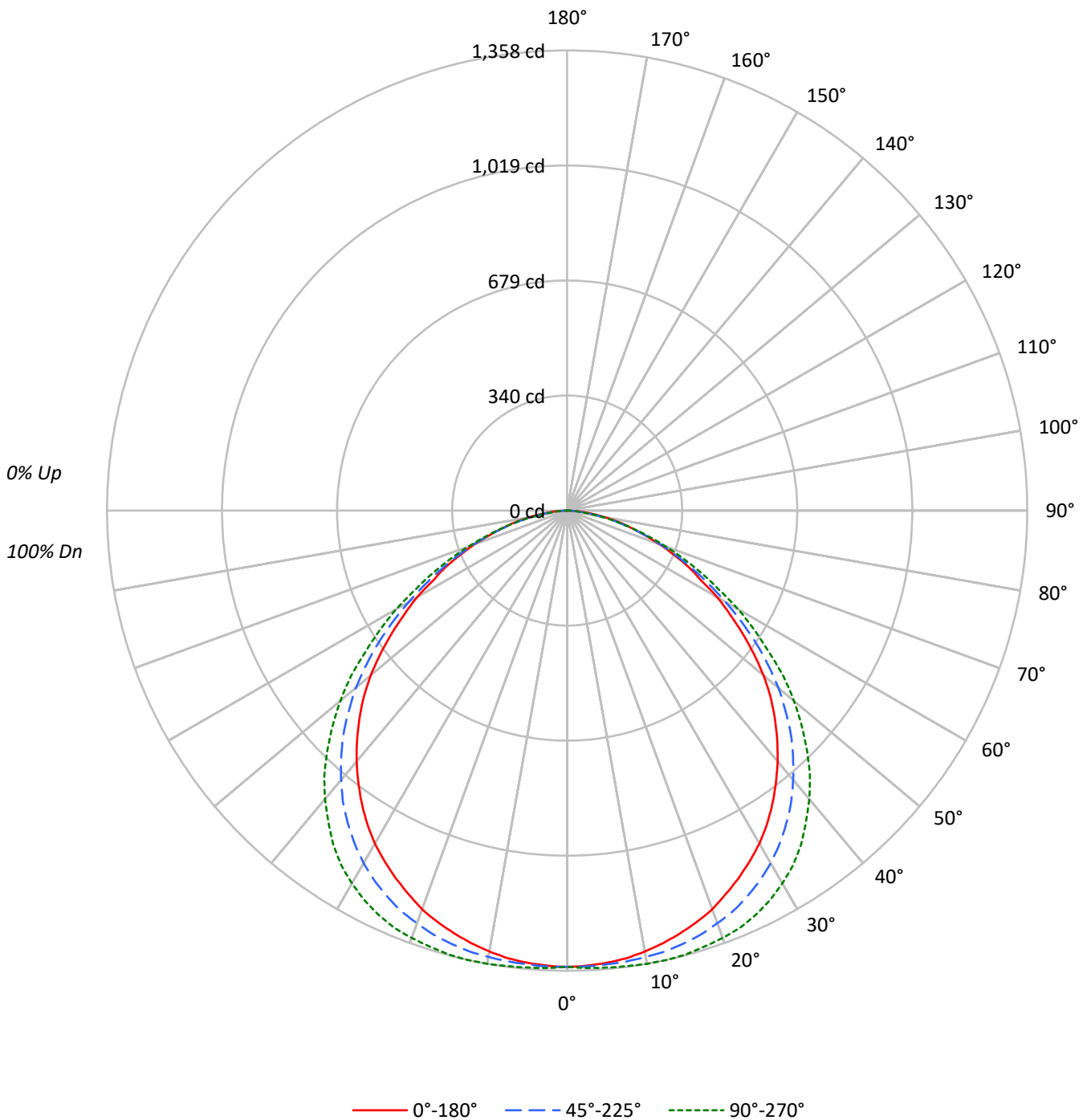
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3619	3632	3656
10°	3610	3654	3711
15°	3597	3687	3777
20°	3586	3711	3843
25°	3553	3731	3910
30°	3525	3733	3948
35°	3469	3704	3954
40°	3394	3645	3905
45°	3299	3554	3809
50°	3166	3408	3659
55°	2964	3191	3408
60°	2755	2904	3140
65°	2525	2614	2790
70°	2286	2323	2431
75°	2014	1966	2038
80°	1751	1609	1537
85°	1423	1068	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.4
10°-20°	373.9	9.9
20°-30°	579.3	15.4
30°-40°	705.0	18.7
40°-50°	718.1	19.0
50°-60°	605.6	16.1
60°-70°	409.6	10.9
70°-80°	204.7	5.4
80°-90°	45.5	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°	1081.5	28.7
0°-40°	1786.5	47.4
0°-60°	3110.1	82.5
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1340	1342	1344	1351	1354	127
15°	1291	1300	1324	1347	1356	365
25°	1197	1215	1257	1298	1317	552
35°	1056	1079	1128	1181	1204	660
45°	867	883	934	982	1001	668
55°	632	641	680	712	726	565
65°	397	390	410	429	438	392
75°	194	187	189	191	196	208
85°	46	39	35	30	30	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1344.4	1344.4	1346.7	1349.0	1351.3
5°	1339.7	1342.0	1344.4	1351.3	1353.6
7.5°	1332.8	1335.1	1342.0	1351.3	1355.9
10°	1321.3	1325.9	1337.4	1351.3	1358.2
12.5°	1307.5	1314.4	1332.8	1349.0	1358.2
15°	1291.3	1300.5	1323.6	1346.7	1355.9
17.5°	1272.9	1284.4	1312.1	1337.4	1349.0
20°	1252.1	1265.9	1295.9	1328.2	1342.0
22.5°	1224.4	1242.9	1279.8	1316.7	1332.8
25°	1196.8	1215.2	1256.7	1298.2	1316.7
27.5°	1166.8	1187.5	1231.4	1277.5	1295.9
30°	1134.5	1153.0	1201.4	1249.8	1270.6
32.5°	1097.6	1116.1	1166.8	1217.5	1240.6
35°	1056.1	1079.2	1127.6	1180.6	1203.7
37.5°	1012.3	1033.1	1086.1	1136.8	1157.6
40°	966.2	986.9	1037.7	1090.7	1111.5
42.5°	917.8	938.5	986.9	1037.7	1060.7
45°	867.0	883.2	933.9	982.3	1000.8
47.5°	814.0	825.5	873.9	920.1	938.5
50°	756.3	767.9	814.0	855.5	873.9
52.5°	694.1	703.3	747.1	784.0	804.8
55°	631.8	641.0	680.2	712.5	726.4
57.5°	569.6	574.2	608.8	641.0	654.9
60°	511.9	511.9	539.6	565.0	583.4
62.5°	445.0	452.0	472.7	498.1	505.0
65°	396.6	389.7	410.5	428.9	438.1
67.5°	341.3	336.7	350.5	366.6	371.3
70°	290.5	283.6	295.2	304.4	309.0
72.5°	237.5	235.2	239.8	246.7	249.0
75°	193.7	186.8	189.1	191.4	196.0
77.5°	154.5	143.0	145.3	143.0	145.3
80°	113.0	103.8	103.8	101.5	99.2
82.5°	76.1	71.5	66.9	62.3	60.0
85°	46.1	39.2	34.6	30.0	30.0
87.5°	18.4	13.8	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)