

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: P295695

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3614.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

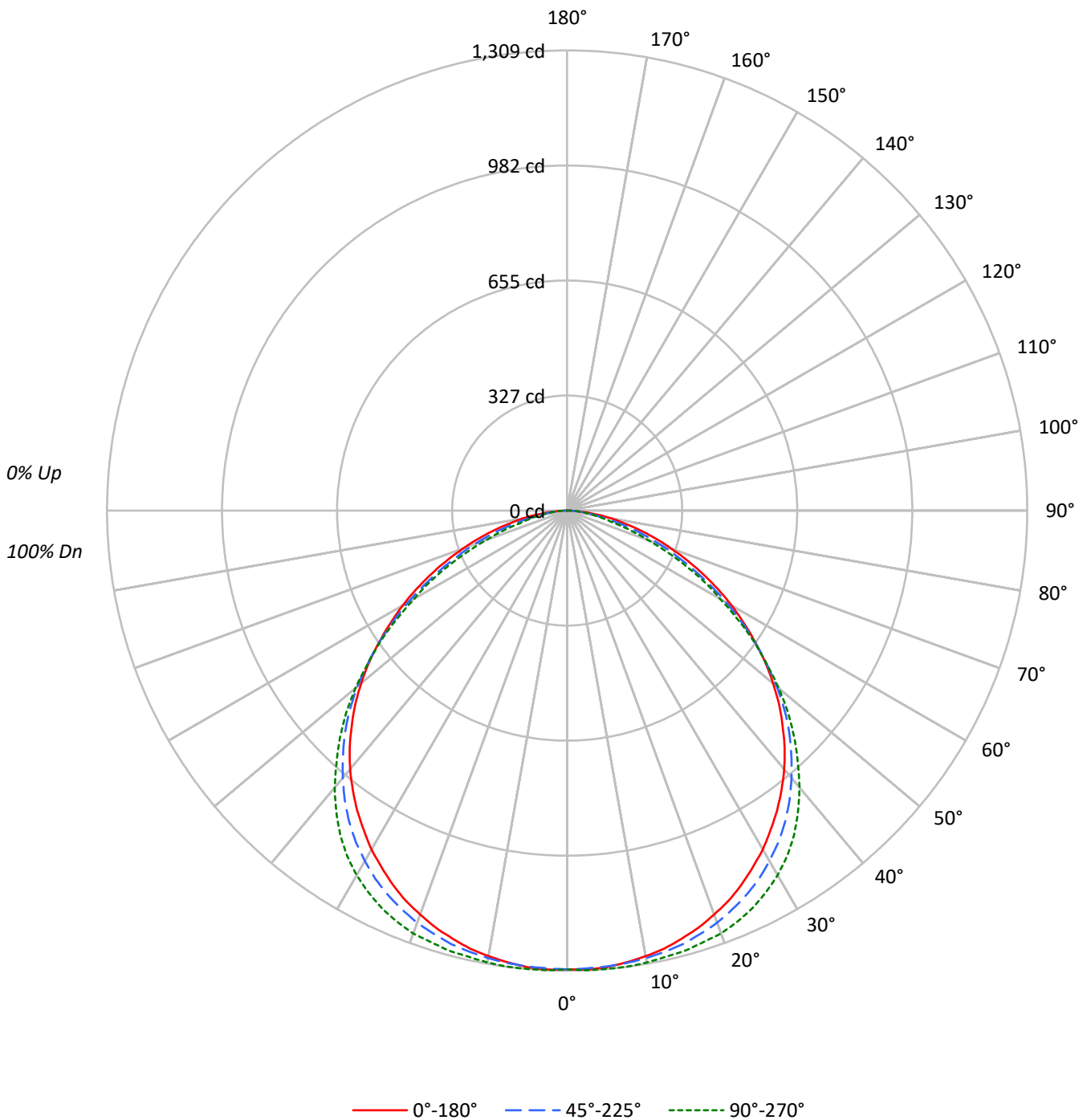
Input Watts (W): 40.362
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3512	3512	3512
5°	3521	3516	3535
10°	3517	3532	3566
15°	3511	3556	3611
20°	3501	3573	3666
25°	3486	3582	3705
30°	3459	3576	3721
35°	3420	3550	3698
40°	3374	3488	3614
45°	3300	3402	3478
50°	3202	3262	3292
55°	3066	3058	3041
60°	2908	2812	2706
65°	2709	2515	2378
70°	2472	2204	1921
75°	2221	1829	1437
80°	1976	1336	1252
85°	1553	1108	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.4
10°-20°	361.1	10.0
20°-30°	557.3	15.4
30°-40°	675.8	18.7
40°-50°	686.2	19.0
50°-60°	580.5	16.1
60°-70°	392.7	10.9
70°-80°	189.9	5.3
80°-90°	46.3	1.3
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°	1042.6	28.8
0°-40°	1718.4	47.5
0°-60°	2985.1	82.6
0°-90°	3614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1303	1303	1302	1307	1309	124
15°	1260	1267	1276	1291	1296	356
25°	1174	1183	1206	1237	1248	541
35°	1041	1052	1081	1115	1126	651
45°	867	869	894	912	914	669
55°	654	648	652	652	648	584
65°	426	408	395	379	373	422
75°	214	198	176	153	138	228
85°	50	40	36	36	36	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1306.9	1306.9	1303.4	1306.9	1308.7
5°	1303.4	1303.4	1301.6	1306.9	1308.7
7.5°	1296.2	1298.0	1298.0	1305.1	1308.7
10°	1287.2	1290.8	1292.6	1303.4	1305.1
12.5°	1276.4	1280.0	1285.4	1298.0	1299.8
15°	1260.3	1267.4	1276.4	1290.8	1296.2
17.5°	1244.1	1251.3	1262.1	1281.8	1287.2
20°	1222.6	1231.5	1247.7	1271.0	1280.0
22.5°	1201.0	1208.2	1228.0	1256.7	1265.7
25°	1174.1	1183.1	1206.4	1236.9	1247.7
27.5°	1143.6	1156.1	1181.3	1213.6	1224.4
30°	1113.1	1123.8	1150.8	1186.7	1197.4
32.5°	1077.2	1087.9	1118.4	1152.6	1165.1
35°	1041.2	1052.0	1080.7	1114.9	1125.6
37.5°	1001.8	1008.9	1039.5	1068.2	1078.9
40°	960.5	965.8	992.8	1021.5	1028.7
42.5°	915.6	919.2	944.3	969.4	971.2
45°	867.1	868.9	894.0	912.0	913.8
47.5°	818.6	816.8	838.4	850.9	852.7
50°	764.8	764.8	779.1	786.3	786.3
52.5°	710.9	707.3	714.5	719.9	714.5
55°	653.5	648.1	651.7	651.7	648.1
57.5°	596.0	585.3	587.0	583.5	574.5
60°	540.4	527.8	522.4	509.9	502.7
62.5°	482.9	468.6	457.8	443.4	441.6
65°	425.5	407.5	395.0	378.8	373.4
67.5°	369.8	353.7	335.7	317.8	307.0
70°	314.2	296.2	280.1	256.7	244.2
72.5°	263.9	247.7	228.0	201.1	192.1
75°	213.6	197.5	175.9	152.6	138.2
77.5°	165.2	152.6	129.3	109.5	107.7
80°	127.5	113.1	86.2	80.8	80.8
82.5°	82.6	73.6	61.0	57.4	57.4
85°	50.3	39.5	35.9	35.9	35.9
87.5°	19.7	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)