

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: P295696

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295696
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

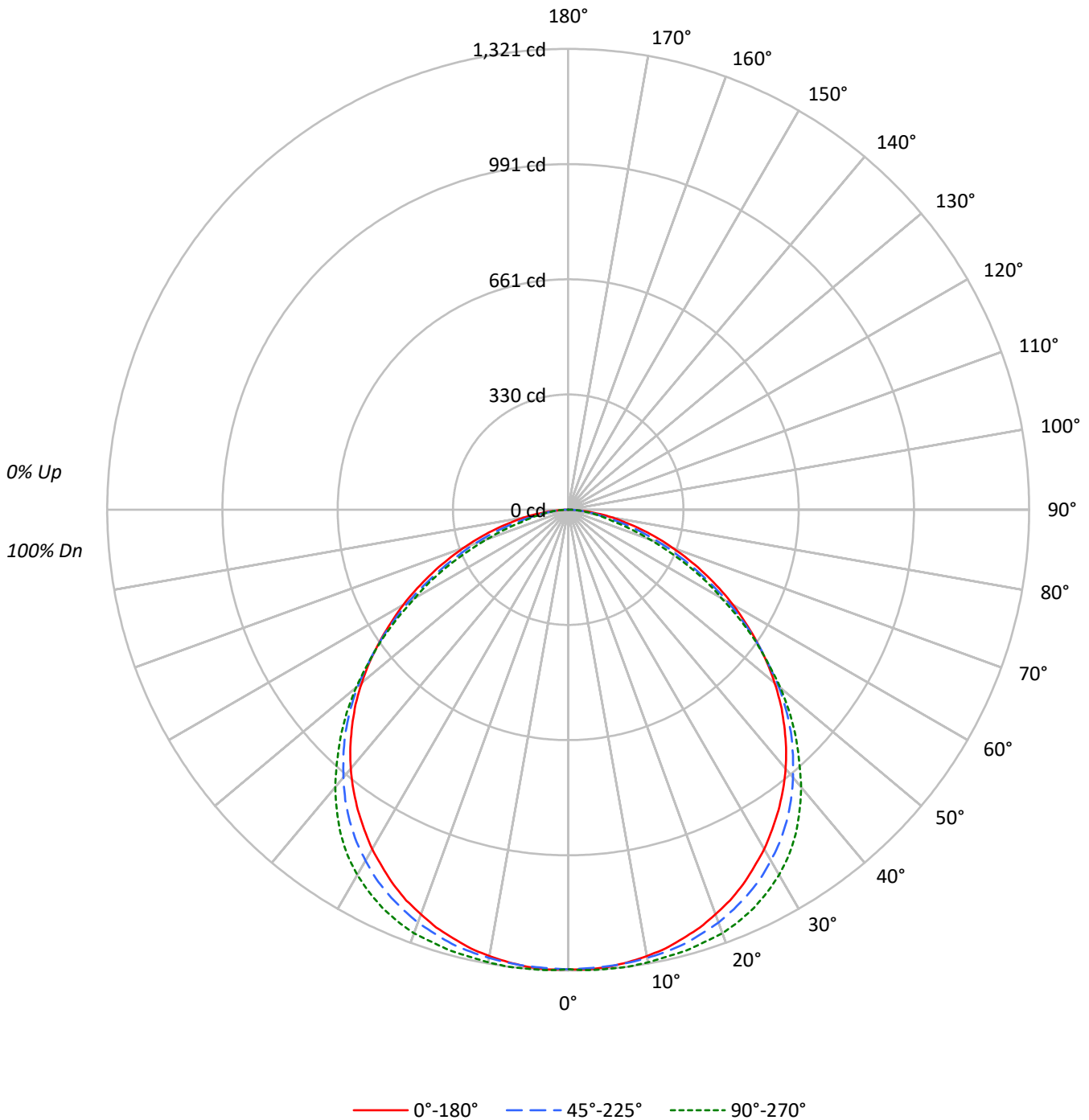
Input Watts (W): 41.385
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3545	3545	3545
5°	3554	3549	3569
10°	3550	3565	3600
15°	3544	3589	3645
20°	3534	3607	3700
25°	3519	3616	3739
30°	3491	3609	3756
35°	3453	3584	3733
40°	3406	3520	3648
45°	3331	3434	3510
50°	3232	3293	3323
55°	3095	3086	3069
60°	2936	2838	2731
65°	2735	2539	2400
70°	2495	2224	1939
75°	2242	1847	1450
80°	1994	1348	1263
85°	1565	1118	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.4
10°-20°	364.5	10.0
20°-30°	562.5	15.4
30°-40°	682.2	18.7
40°-50°	692.6	19.0
50°-60°	585.9	16.1
60°-70°	396.4	10.9
70°-80°	191.7	5.3
80°-90°	46.8	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°	1052.4	28.8
0°-40°	1734.6	47.5
0°-60°	3013.1	82.6
0°-90°	3648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1316	1316	1314	1319	1321	125
15°	1272	1279	1288	1303	1308	359
25°	1185	1194	1218	1249	1259	546
35°	1051	1062	1091	1125	1136	657
45°	875	877	902	921	922	675
55°	660	654	658	658	654	590
65°	430	411	399	382	377	426
75°	216	199	178	154	140	230
85°	51	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°	1317.4	1317.4	1317.4	1317.4	1317.4
2.5°	1319.2	1319.2	1315.6	1319.2	1321.1
5°	1315.6	1315.6	1313.8	1319.2	1321.1
7.5°	1308.4	1310.2	1310.2	1317.4	1321.1
10°	1299.3	1302.9	1304.7	1315.6	1317.4
12.5°	1288.4	1292.1	1297.5	1310.2	1312.0
15°	1272.1	1279.4	1288.4	1302.9	1308.4
17.5°	1255.8	1263.1	1273.9	1293.9	1299.3
20°	1234.1	1243.1	1259.4	1283.0	1292.1
22.5°	1212.3	1219.6	1239.5	1268.5	1277.6
25°	1185.1	1194.2	1217.8	1248.6	1259.4
27.5°	1154.3	1167.0	1192.4	1225.0	1235.9
30°	1123.5	1134.4	1161.6	1197.8	1208.7
32.5°	1087.3	1098.2	1129.0	1163.4	1176.1
35°	1051.0	1061.9	1090.9	1125.3	1136.2
37.5°	1011.2	1018.4	1049.2	1078.2	1089.1
40°	969.5	974.9	1002.1	1031.1	1038.4
42.5°	924.2	927.8	953.2	978.6	980.4
45°	875.3	877.1	902.4	920.6	922.4
47.5°	826.3	824.5	846.3	859.0	860.8
50°	772.0	772.0	786.5	793.7	793.7
52.5°	717.6	714.0	721.2	726.7	721.2
55°	659.6	654.2	657.8	657.8	654.2
57.5°	601.6	590.8	592.6	588.9	579.9
60°	545.5	532.8	527.3	514.6	507.4
62.5°	487.5	473.0	462.1	447.6	445.8
65°	429.5	411.4	398.7	382.4	376.9
67.5°	373.3	357.0	338.9	320.7	309.9
70°	317.1	299.0	282.7	259.1	246.5
72.5°	266.4	250.1	230.1	203.0	193.9
75°	215.6	199.3	177.6	154.0	139.5
77.5°	166.7	154.0	130.5	110.5	108.7
80°	128.7	114.2	87.0	81.5	81.5
82.5°	83.4	74.3	61.6	58.0	58.0
85°	50.7	39.9	36.2	36.2	36.2
87.5°	19.9	18.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)