

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: P295590

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-UNV-L82765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3671.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

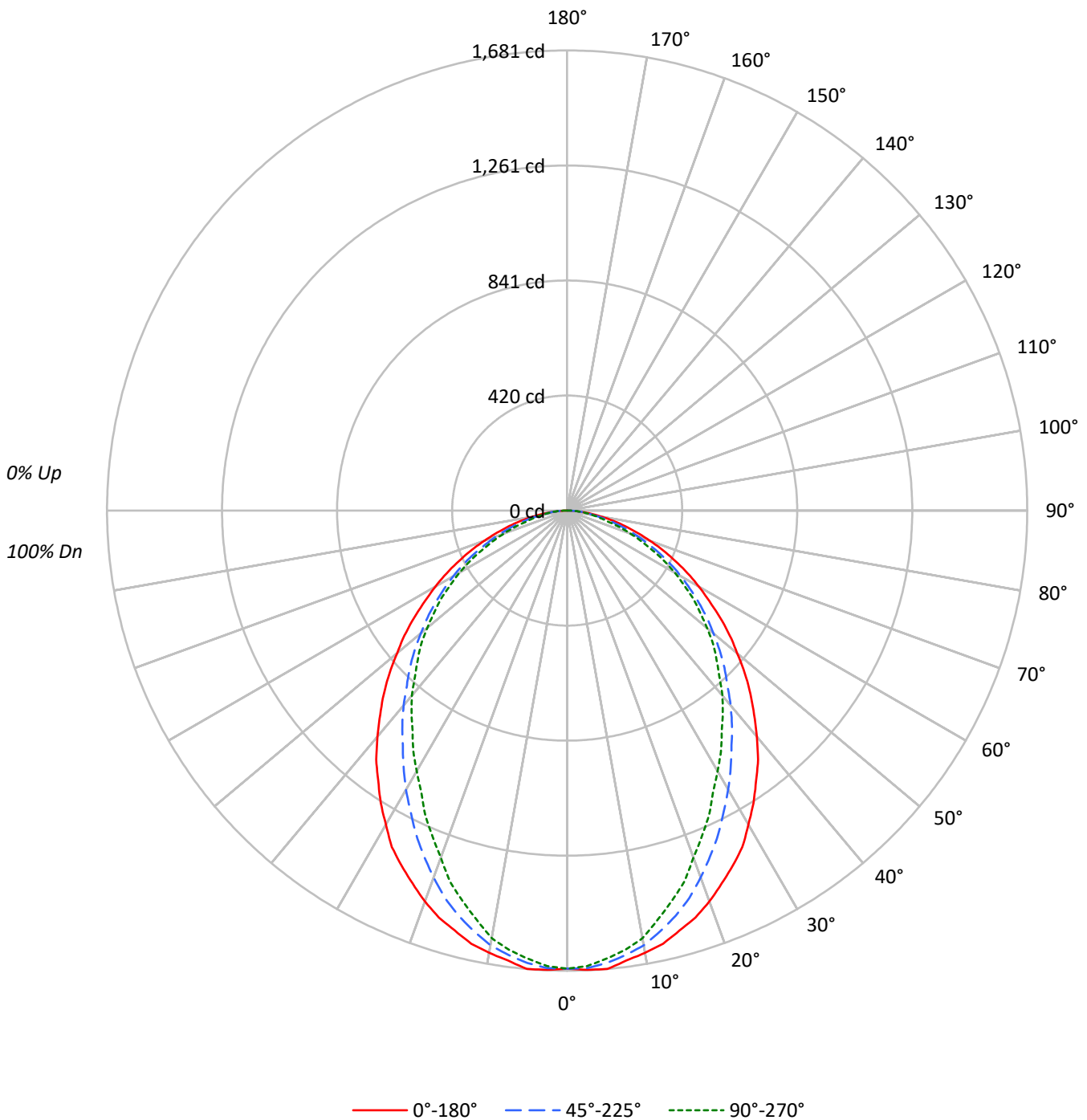
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																												
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72																												
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																												
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54																												
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47																												
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																												
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37																												
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																												
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30																												
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4502	4502	4502
5°	4540	4482	4440
10°	4483	4406	4335
15°	4423	4268	4113
20°	4352	4085	3863
25°	4249	3877	3642
30°	4115	3657	3416
35°	3953	3438	3234
40°	3786	3263	3099
45°	3605	3092	2939
50°	3395	2921	2792
55°	3201	2757	2641
60°	2996	2587	2445
65°	2774	2389	2192
70°	2526	2147	1939
75°	2273	1918	1580
80°	1946	1562	1489
85°	1581	1485	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	4.3
10°-20°	430.0	11.7
20°-30°	603.4	16.4
30°-40°	669.3	18.2
40°-50°	642.5	17.5
50°-60°	538.5	14.7
60°-70°	378.0	10.3
70°-80°	197.4	5.4
80°-90°	55.2	1.5
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°	1190.0	32.4
0°-40°	1859.4	50.6
0°-60°	3040.4	82.8
0°-90°	3671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1681	1659	1659	1648	1644	159
15°	1588	1560	1532	1492	1476	448
25°	1431	1380	1306	1242	1226	659
35°	1203	1137	1047	996	985	754
45°	947	874	812	782	772	730
55°	682	631	588	569	563	610
65°	436	406	375	352	344	433
75°	219	202	184	163	152	232
85°	51	48	48	48	48	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	1679.3	1670.0	1673.1	1673.1	1665.3
5°	1680.8	1659.1	1659.1	1648.3	1643.6
7.5°	1657.6	1640.5	1637.4	1623.5	1618.8
10°	1640.5	1623.5	1612.6	1594.0	1586.3
12.5°	1620.4	1594.0	1573.9	1542.8	1530.4
15°	1587.8	1559.9	1532.0	1491.7	1476.2
17.5°	1558.4	1525.8	1483.9	1439.0	1421.9
20°	1519.6	1480.8	1426.5	1364.5	1349.0
22.5°	1474.6	1429.7	1366.1	1299.4	1287.0
25°	1431.2	1380.0	1305.6	1242.0	1226.5
27.5°	1386.2	1324.2	1238.9	1170.7	1155.2
30°	1324.2	1260.6	1176.9	1110.2	1099.4
32.5°	1266.8	1203.3	1111.8	1057.5	1045.1
35°	1203.3	1136.6	1046.7	995.5	984.6
37.5°	1145.9	1068.4	989.3	939.7	933.5
40°	1077.7	1007.9	928.8	891.6	882.3
42.5°	1011.0	941.2	866.8	834.2	823.4
45°	947.4	874.5	812.5	781.5	772.2
47.5°	880.7	814.1	755.1	730.3	724.1
50°	811.0	752.0	697.8	674.5	666.8
52.5°	748.9	688.5	643.5	621.8	612.5
55°	682.3	631.1	587.7	569.1	562.9
57.5°	615.6	573.7	531.9	514.8	505.5
60°	556.7	514.8	480.7	460.5	454.3
62.5°	496.2	460.5	428.0	409.4	401.6
65°	435.7	406.3	375.2	352.0	344.2
67.5°	379.9	347.3	322.5	302.4	294.6
70°	321.0	297.7	272.9	254.3	246.5
72.5°	266.7	249.6	227.9	207.8	200.0
75°	218.6	201.6	184.5	162.8	152.0
77.5°	170.6	159.7	142.7	124.0	124.0
80°	125.6	119.4	100.8	97.7	96.1
82.5°	86.8	83.7	72.9	71.3	71.3
85°	51.2	48.1	48.1	48.1	48.1
87.5°	21.7	23.3	24.8	24.8	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)