

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: P295550

Luminaire Tested: **14RLN-LD5-35-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295550
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-L83050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3743.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

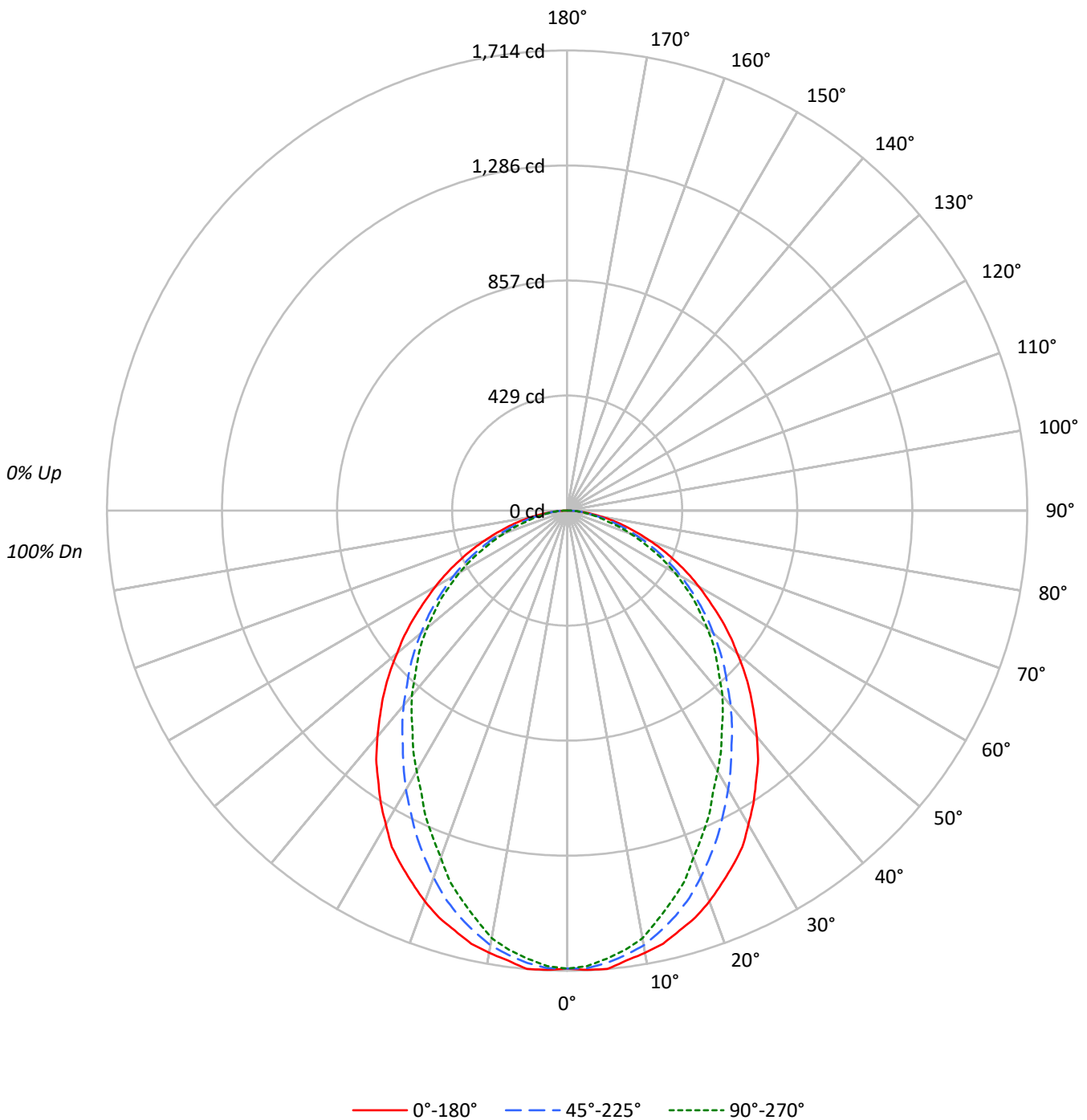
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4591	4591	4591
5°	4629	4570	4527
10°	4571	4493	4420
15°	4510	4352	4193
20°	4437	4165	3939
25°	4333	3953	3713
30°	4195	3729	3483
35°	4030	3506	3298
40°	3860	3327	3160
45°	3676	3153	2996
50°	3462	2979	2846
55°	3263	2811	2692
60°	3055	2638	2493
65°	2829	2436	2235
70°	2575	2190	1978
75°	2318	1956	1611
80°	1985	1593	1519
85°	1612	1513	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	4.3
10°-20°	438.4	11.7
20°-30°	615.3	16.4
30°-40°	682.4	18.2
40°-50°	655.1	17.5
50°-60°	549.1	14.7
60°-70°	385.4	10.3
70°-80°	201.3	5.4
80°-90°	56.3	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°	1213.4	32.4
0°-40°	1895.8	50.6
0°-60°	3100.0	82.8
0°-90°	3743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1714	1692	1692	1681	1676	162
15°	1619	1590	1562	1521	1505	457
25°	1459	1407	1331	1266	1251	672
35°	1227	1159	1067	1015	1004	768
45°	966	892	828	797	787	744
55°	696	644	599	580	574	622
65°	444	414	383	359	351	441
75°	223	206	188	166	155	236
85°	52	49	49	49	49	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.9	1705.9	1705.9	1705.9	1705.9
2.5°	1712.2	1702.7	1705.9	1705.9	1698.0
5°	1713.8	1691.7	1691.7	1680.6	1675.9
7.5°	1690.1	1672.7	1669.5	1655.3	1650.6
10°	1672.7	1655.3	1644.3	1625.3	1617.4
12.5°	1652.2	1625.3	1604.7	1573.1	1560.5
15°	1619.0	1590.5	1562.0	1520.9	1505.1
17.5°	1588.9	1555.7	1513.0	1467.2	1449.8
20°	1549.4	1509.9	1454.5	1391.3	1375.5
22.5°	1503.5	1457.7	1392.9	1324.9	1312.2
25°	1459.3	1407.1	1331.2	1266.4	1250.6
27.5°	1413.4	1350.2	1263.2	1193.7	1177.9
30°	1350.2	1285.4	1200.0	1132.0	1120.9
32.5°	1291.7	1226.9	1133.6	1078.2	1065.6
35°	1226.9	1158.9	1067.2	1015.0	1003.9
37.5°	1168.4	1089.3	1008.7	958.1	951.8
40°	1098.8	1027.7	947.0	909.1	899.6
42.5°	1030.8	959.7	883.8	850.6	839.5
45°	966.0	891.7	828.4	796.8	787.3
47.5°	898.0	830.0	770.0	744.7	738.3
50°	826.9	766.8	711.5	687.7	679.8
52.5°	763.6	702.0	656.1	634.0	624.5
55°	695.6	643.5	599.2	580.2	573.9
57.5°	627.7	585.0	542.3	524.9	515.4
60°	567.6	524.9	490.1	469.6	463.2
62.5°	505.9	469.6	436.4	417.4	409.5
65°	444.3	414.2	382.6	358.9	351.0
67.5°	387.3	354.1	328.9	308.3	300.4
70°	327.3	303.6	278.3	259.3	251.4
72.5°	271.9	254.5	232.4	211.9	204.0
75°	222.9	205.5	188.1	166.0	154.9
77.5°	173.9	162.8	145.5	126.5	126.5
80°	128.1	121.7	102.8	99.6	98.0
82.5°	88.5	85.4	74.3	72.7	72.7
85°	52.2	49.0	49.0	49.0	49.0
87.5°	22.1	23.7	25.3	25.3	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)