

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: P295620

Luminaire Tested: **14RLN-LD5-35-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295620
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-L93050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

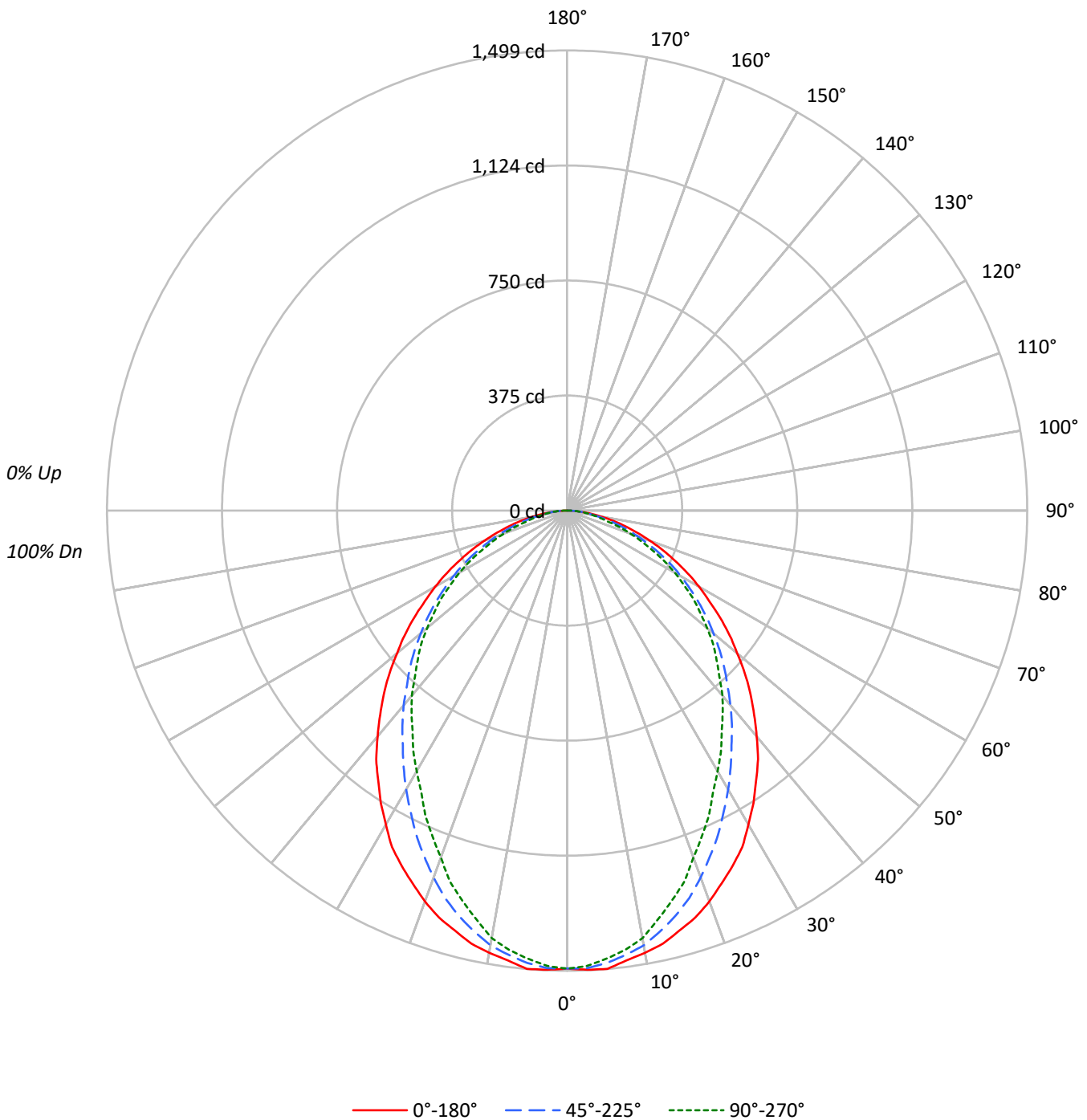
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4014	4014	4014
5°	4048	3996	3958
10°	3997	3929	3865
15°	3944	3805	3667
20°	3880	3642	3444
25°	3789	3456	3247
30°	3668	3260	3046
35°	3524	3066	2884
40°	3375	2909	2763
45°	3215	2757	2620
50°	3027	2604	2489
55°	2854	2458	2354
60°	2671	2307	2180
65°	2474	2131	1954
70°	2252	1914	1729
75°	2026	1710	1409
80°	1736	1393	1328
85°	1408	1325	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	4.3
10°-20°	383.3	11.7
20°-30°	538.0	16.4
30°-40°	596.7	18.2
40°-50°	572.9	17.5
50°-60°	480.1	14.7
60°-70°	337.0	10.3
70°-80°	176.0	5.4
80°-90°	49.3	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°	1061.0	32.4
0°-40°	1657.8	50.6
0°-60°	2710.8	82.8
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1499	1479	1479	1470	1465	142
15°	1416	1391	1366	1330	1316	399
25°	1276	1230	1164	1107	1094	587
35°	1073	1013	933	888	878	672
45°	845	780	724	697	688	651
55°	608	563	524	507	502	544
65°	388	362	335	314	307	386
75°	195	180	164	145	136	207
85°	46	43	43	43	43	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.7	1491.7	1491.7	1491.7	1491.7
2.5°	1497.2	1488.9	1491.7	1491.7	1484.8
5°	1498.6	1479.3	1479.3	1469.6	1465.4
7.5°	1477.9	1462.7	1459.9	1447.5	1443.3
10°	1462.7	1447.5	1437.8	1421.2	1414.3
12.5°	1444.7	1421.2	1403.2	1375.6	1364.5
15°	1415.7	1390.8	1365.9	1330.0	1316.1
17.5°	1389.4	1360.4	1323.0	1282.9	1267.7
20°	1354.8	1320.3	1271.9	1216.6	1202.8
22.5°	1314.7	1274.7	1218.0	1158.5	1147.5
25°	1276.0	1230.4	1164.1	1107.4	1093.5
27.5°	1235.9	1180.6	1104.6	1043.8	1030.0
30°	1180.6	1124.0	1049.3	989.9	980.2
32.5°	1129.5	1072.8	991.2	942.9	931.8
35°	1072.8	1013.4	933.2	887.6	877.9
37.5°	1021.7	952.5	882.0	837.8	832.3
40°	960.8	898.6	828.1	794.9	786.6
42.5°	901.4	839.2	772.8	743.8	734.1
45°	844.7	779.7	724.4	696.8	688.5
47.5°	785.3	725.8	673.3	651.2	645.6
50°	723.0	670.5	622.1	601.4	594.5
52.5°	667.7	613.8	573.7	554.4	546.1
55°	608.3	562.7	524.0	507.4	501.8
57.5°	548.8	511.5	474.2	459.0	450.7
60°	496.3	459.0	428.6	410.6	405.1
62.5°	442.4	410.6	381.6	365.0	358.1
65°	388.5	362.2	334.6	313.8	306.9
67.5°	338.7	309.7	287.6	269.6	262.7
70°	286.2	265.4	243.3	226.7	219.8
72.5°	237.8	222.6	203.2	185.3	178.3
75°	194.9	179.7	164.5	145.2	135.5
77.5°	152.1	142.4	127.2	110.6	110.6
80°	112.0	106.5	89.9	87.1	85.7
82.5°	77.4	74.7	65.0	63.6	63.6
85°	45.6	42.9	42.9	42.9	42.9
87.5°	19.4	20.7	22.1	22.1	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)