

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: P295798

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295798
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-LD5-35-RDP-UNV-L92765-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2671.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

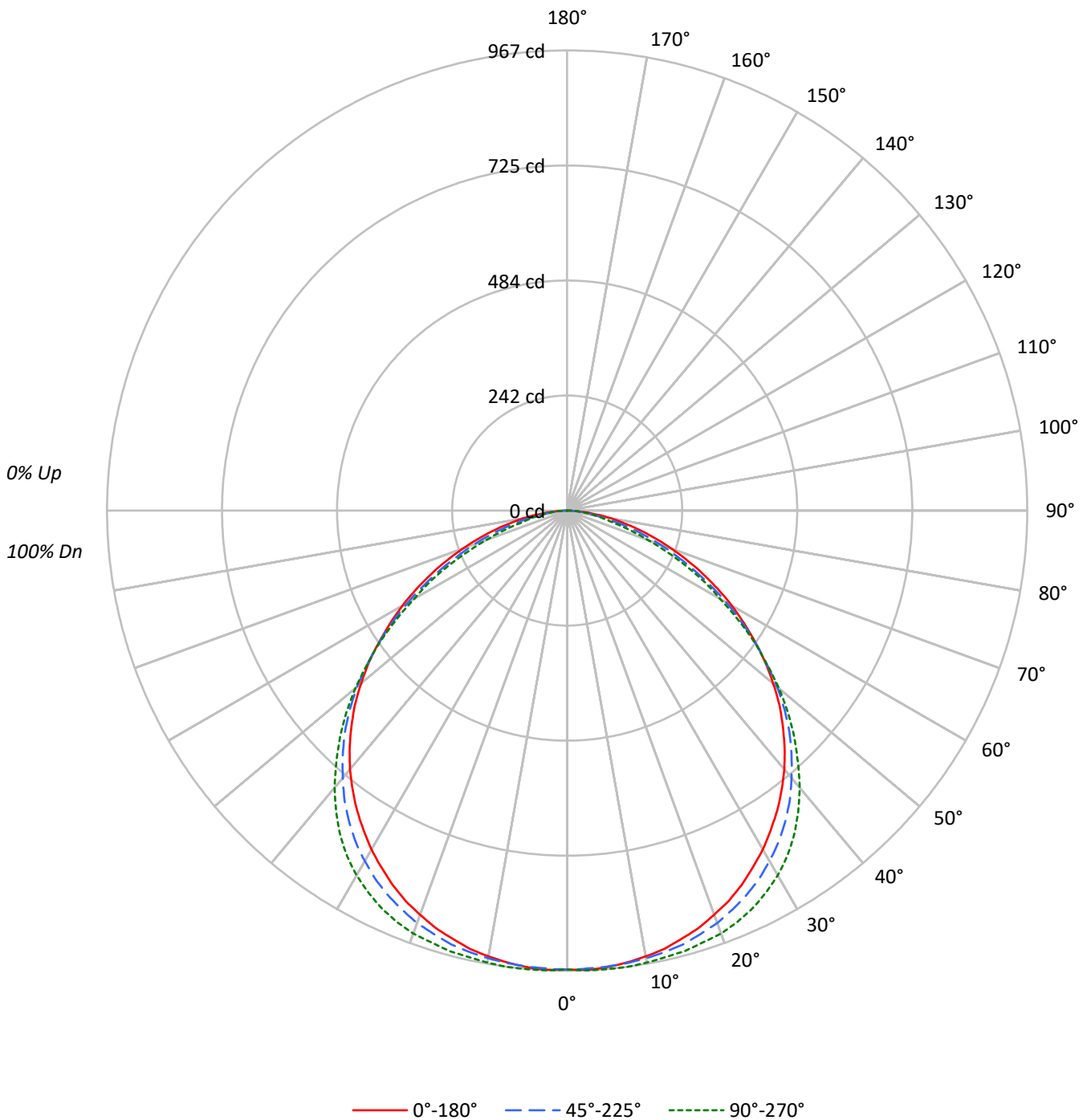
Input Watts (W): 33.945
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2596	2596	2596
5°	2602	2598	2613
10°	2599	2610	2636
15°	2595	2628	2669
20°	2588	2641	2709
25°	2576	2647	2738
30°	2556	2643	2750
35°	2528	2624	2733
40°	2493	2577	2671
45°	2439	2515	2570
50°	2366	2411	2433
55°	2266	2259	2247
60°	2150	2078	1999
65°	2003	1859	1757
70°	1827	1629	1419
75°	1642	1352	1063
80°	1460	987	925
85°	1149	818	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.4
10°-20°	266.9	10.0
20°-30°	411.8	15.4
30°-40°	499.5	18.7
40°-50°	507.1	19.0
50°-60°	429.0	16.1
60°-70°	290.3	10.9
70°-80°	140.3	5.3
80°-90°	34.2	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°	770.5	28.8
0°-40°	1270.0	47.5
0°-60°	2206.2	82.6
0°-90°	2671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	963	963	962	966	967	92
15°	931	937	943	954	958	263
25°	868	874	892	914	922	400
35°	770	778	799	824	832	481
45°	641	642	661	674	675	494
55°	483	479	482	482	479	432
65°	314	301	292	280	276	312
75°	158	146	130	113	102	168
85°	37	29	26	26	26	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.6	964.6	964.6	964.6	964.6
2.5°	965.9	965.9	963.3	965.9	967.2
5°	963.3	963.3	961.9	965.9	967.2
7.5°	958.0	959.3	959.3	964.6	967.2
10°	951.3	954.0	955.3	963.3	964.6
12.5°	943.4	946.0	950.0	959.3	960.6
15°	931.4	936.7	943.4	954.0	958.0
17.5°	919.5	924.8	932.8	947.3	951.3
20°	903.6	910.2	922.1	939.4	946.0
22.5°	887.6	892.9	907.5	928.8	935.4
25°	867.7	874.4	891.6	914.2	922.1
27.5°	845.2	854.5	873.0	896.9	904.9
30°	822.6	830.6	850.5	877.0	885.0
32.5°	796.1	804.1	826.6	851.8	861.1
35°	769.6	777.5	798.7	824.0	831.9
37.5°	740.4	745.7	768.2	789.5	797.4
40°	709.8	713.8	733.7	755.0	760.3
42.5°	676.7	679.3	697.9	716.5	717.8
45°	640.9	642.2	660.8	674.0	675.3
47.5°	605.0	603.7	619.6	628.9	630.2
50°	565.2	565.2	575.8	581.1	581.1
52.5°	525.4	522.8	528.1	532.1	528.1
55°	483.0	479.0	481.6	481.6	479.0
57.5°	440.5	432.5	433.9	431.2	424.6
60°	399.4	390.1	386.1	376.8	371.5
62.5°	356.9	346.3	338.3	327.7	326.4
65°	314.5	301.2	291.9	280.0	276.0
67.5°	273.3	261.4	248.1	234.8	226.9
70°	232.2	218.9	207.0	189.7	180.4
72.5°	195.0	183.1	168.5	148.6	142.0
75°	157.9	145.9	130.0	112.8	102.2
77.5°	122.1	112.8	95.5	80.9	79.6
80°	94.2	83.6	63.7	59.7	59.7
82.5°	61.0	54.4	45.1	42.5	42.5
85°	37.2	29.2	26.5	26.5	26.5
87.5°	14.6	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)