

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: P295725

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295725
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-L82765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2775.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

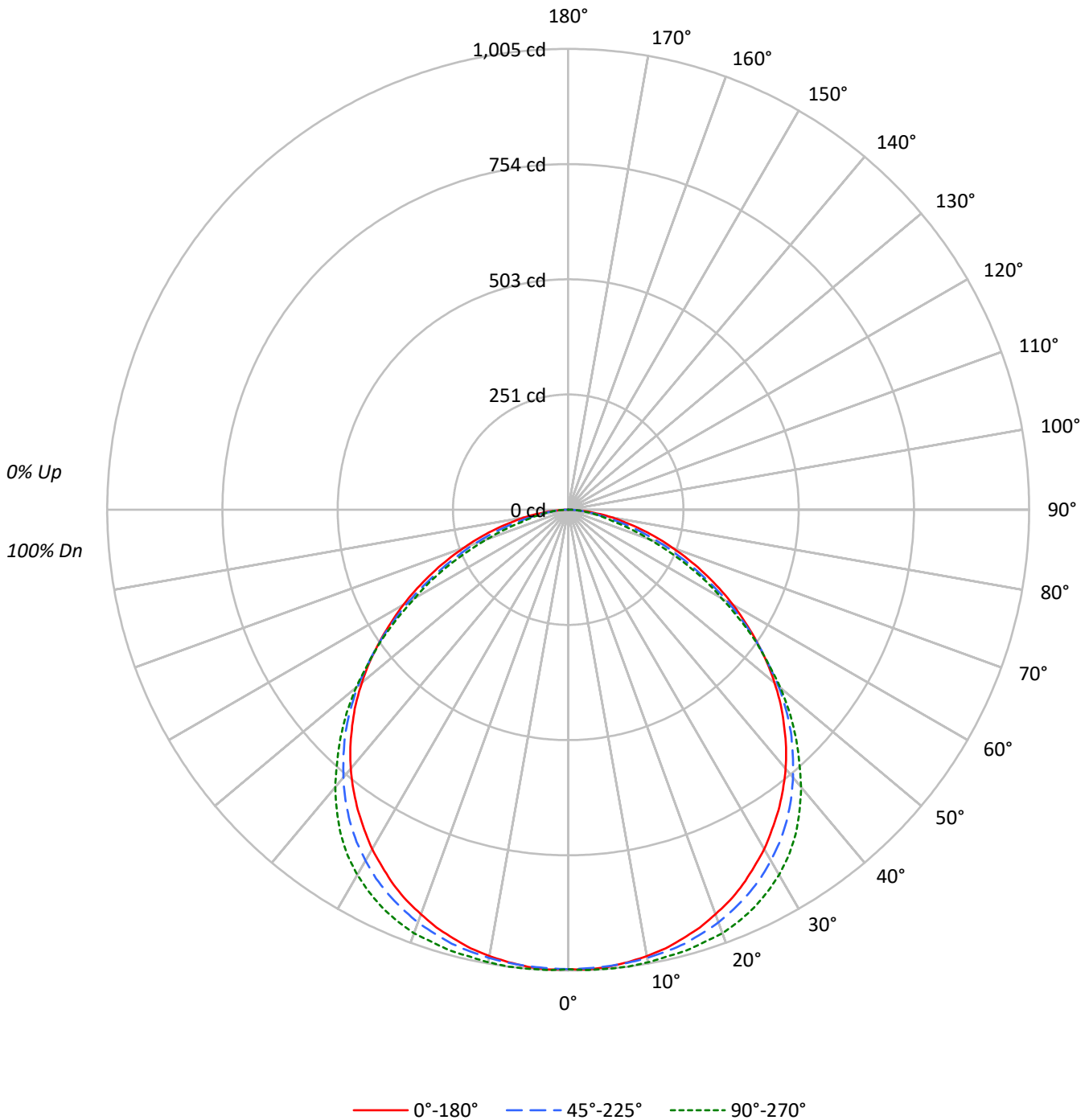
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2697	2697	2697
5°	2703	2700	2714
10°	2701	2712	2739
15°	2696	2730	2773
20°	2688	2743	2815
25°	2677	2750	2844
30°	2656	2746	2857
35°	2626	2726	2839
40°	2591	2678	2775
45°	2534	2613	2670
50°	2458	2505	2528
55°	2354	2348	2335
60°	2233	2159	2077
65°	2080	1931	1826
70°	1898	1692	1475
75°	1705	1405	1103
80°	1517	1026	961
85°	1192	852	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.4
10°-20°	277.3	10.0
20°-30°	427.9	15.4
30°-40°	518.9	18.7
40°-50°	526.9	19.0
50°-60°	445.7	16.1
60°-70°	301.6	10.9
70°-80°	145.8	5.3
80°-90°	35.6	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°	800.5	28.8
0°-40°	1319.5	47.5
0°-60°	2292.1	82.6
0°-90°	2775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1001	1001	999	1004	1005	95
15°	968	973	980	991	995	273
25°	902	908	926	950	958	415
35°	800	808	830	856	864	500
45°	666	667	686	700	702	513
55°	502	498	500	500	498	449
65°	327	313	303	291	287	324
75°	164	152	135	117	106	175
85°	39	30	28	28	28	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.2	1002.2	1002.2	1002.2	1002.2
2.5°	1003.5	1003.5	1000.8	1003.5	1004.9
5°	1000.8	1000.8	999.4	1003.5	1004.9
7.5°	995.3	996.6	996.6	1002.2	1004.9
10°	988.4	991.1	992.5	1000.8	1002.2
12.5°	980.1	982.9	987.0	996.6	998.0
15°	967.7	973.2	980.1	991.1	995.3
17.5°	955.3	960.8	969.1	984.2	988.4
20°	938.7	945.6	958.0	976.0	982.9
22.5°	922.2	927.7	942.9	964.9	971.8
25°	901.5	908.4	926.3	949.8	958.0
27.5°	878.1	887.7	907.0	931.9	940.1
30°	854.7	862.9	883.6	911.2	919.4
32.5°	827.1	835.4	858.8	885.0	894.6
35°	799.5	807.8	829.8	856.0	864.3
37.5°	769.2	774.7	798.1	820.2	828.5
40°	737.5	741.6	762.3	784.4	789.9
42.5°	703.0	705.8	725.1	744.4	745.8
45°	665.8	667.2	686.5	700.3	701.6
47.5°	628.6	627.2	643.7	653.4	654.8
50°	587.2	587.2	598.3	603.8	603.8
52.5°	545.9	543.1	548.6	552.8	548.6
55°	501.8	497.6	500.4	500.4	497.6
57.5°	457.7	449.4	450.8	448.0	441.1
60°	414.9	405.3	401.1	391.5	386.0
62.5°	370.8	359.8	351.5	340.5	339.1
65°	326.7	312.9	303.3	290.9	286.7
67.5°	284.0	271.6	257.8	244.0	235.7
70°	241.2	227.4	215.0	197.1	187.5
72.5°	202.6	190.2	175.1	154.4	147.5
75°	164.0	151.6	135.1	117.2	106.1
77.5°	126.8	117.2	99.3	84.1	82.7
80°	97.9	86.8	66.2	62.0	62.0
82.5°	63.4	56.5	46.9	44.1	44.1
85°	38.6	30.3	27.6	27.6	27.6
87.5°	15.2	13.8	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)