

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: P295724

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295724
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-LD5-31-RDP-UNV-L82765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

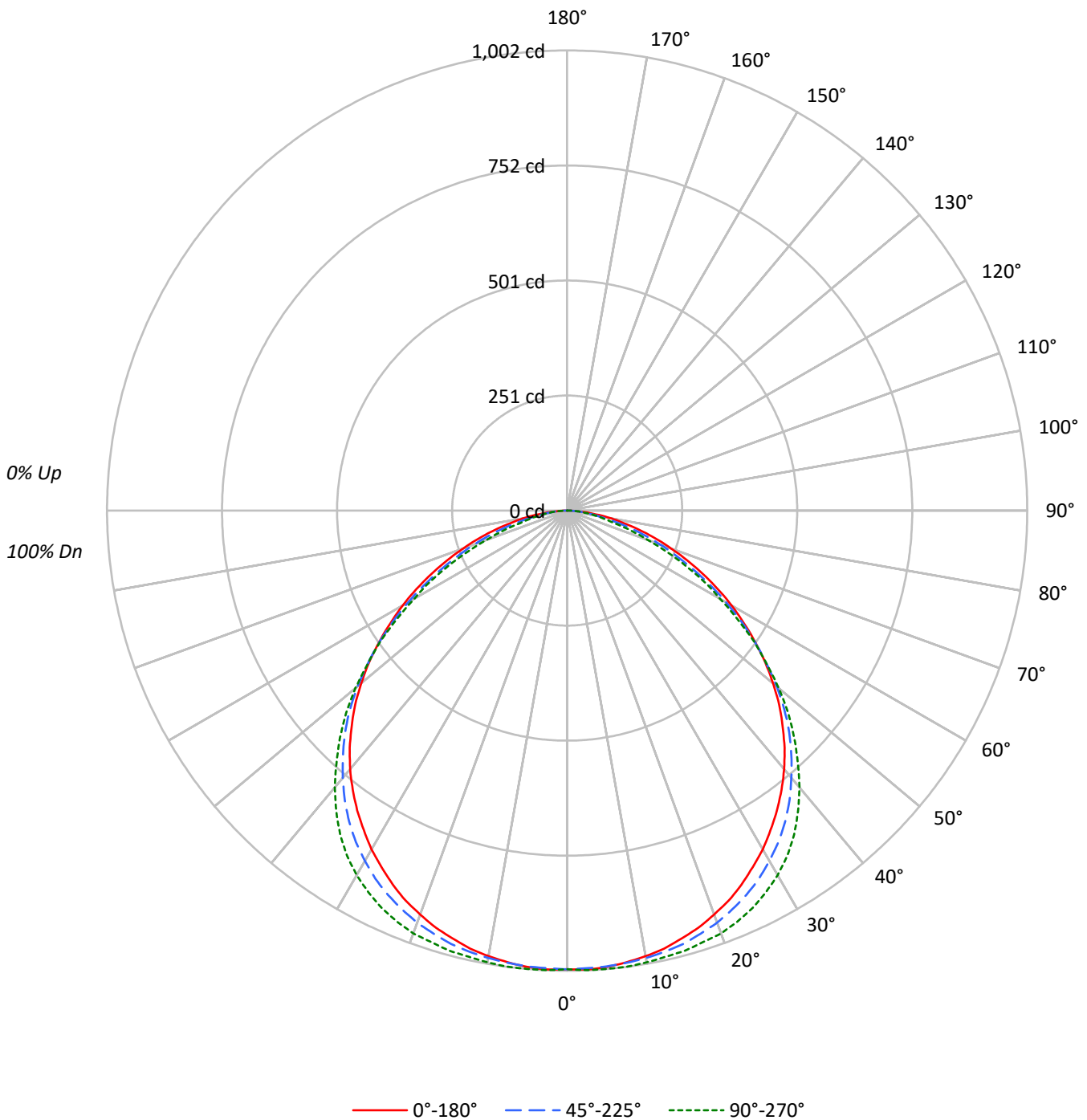
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2688	2688	2688
5°	2695	2691	2706
10°	2692	2703	2729
15°	2687	2722	2764
20°	2680	2735	2806
25°	2668	2741	2835
30°	2647	2737	2848
35°	2618	2717	2830
40°	2582	2669	2766
45°	2525	2604	2662
50°	2450	2496	2519
55°	2346	2340	2327
60°	2226	2152	2070
65°	2073	1925	1820
70°	1892	1686	1471
75°	1700	1400	1100
80°	1512	1023	958
85°	1189	849	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.4
10°-20°	276.3	10.0
20°-30°	426.5	15.4
30°-40°	517.3	18.7
40°-50°	525.2	19.0
50°-60°	444.3	16.1
60°-70°	300.6	10.9
70°-80°	145.3	5.3
80°-90°	35.5	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°	797.9	28.8
0°-40°	1315.2	47.5
0°-60°	2284.6	82.6
0°-90°	2766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	998	998	996	1000	1002	95
15°	965	970	977	988	992	272
25°	899	906	923	947	955	414
35°	797	805	827	853	862	498
45°	664	665	684	698	699	512
55°	500	496	499	499	496	447
65°	326	312	302	290	286	323
75°	164	151	135	117	106	174
85°	38	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°	998.9	998.9	998.9	998.9	998.9
2.5°	1000.3	1000.3	997.5	1000.3	1001.7
5°	997.5	997.5	996.2	1000.3	1001.7
7.5°	992.0	993.4	993.4	998.9	1001.7
10°	985.2	987.9	989.3	997.5	998.9
12.5°	976.9	979.7	983.8	993.4	994.8
15°	964.6	970.0	976.9	987.9	992.0
17.5°	952.2	957.7	965.9	981.0	985.2
20°	935.7	942.6	954.9	972.8	979.7
22.5°	919.2	924.7	939.8	961.8	968.7
25°	898.6	905.5	923.3	946.7	954.9
27.5°	875.2	884.9	904.1	928.8	937.1
30°	851.9	860.1	880.7	908.2	916.5
32.5°	824.4	832.6	856.0	882.1	891.7
35°	796.9	805.2	827.2	853.3	861.5
37.5°	766.7	772.2	795.6	817.5	825.8
40°	735.1	739.2	759.8	781.8	787.3
42.5°	700.7	703.5	722.7	742.0	743.3
45°	663.6	665.0	684.3	698.0	699.4
47.5°	626.5	625.2	641.7	651.3	652.7
50°	585.3	585.3	596.3	601.8	601.8
52.5°	544.1	541.4	546.9	551.0	546.9
55°	500.1	496.0	498.8	498.8	496.0
57.5°	456.2	447.9	449.3	446.6	439.7
60°	413.6	404.0	399.8	390.2	384.7
62.5°	369.6	358.6	350.4	339.4	338.0
65°	325.6	311.9	302.3	289.9	285.8
67.5°	283.0	270.7	256.9	243.2	235.0
70°	240.5	226.7	214.3	196.5	186.9
72.5°	202.0	189.6	174.5	153.9	147.0
75°	163.5	151.1	134.7	116.8	105.8
77.5°	126.4	116.8	98.9	83.8	82.4
80°	97.6	86.6	66.0	61.8	61.8
82.5°	63.2	56.3	46.7	44.0	44.0
85°	38.5	30.2	27.5	27.5	27.5
87.5°	15.1	13.7	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)