

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: P295779

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295779
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-LD5-26-RDP-UNV-L92765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1939.0 lumens
Efficiency: N/A
Efficacy: 81.1 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

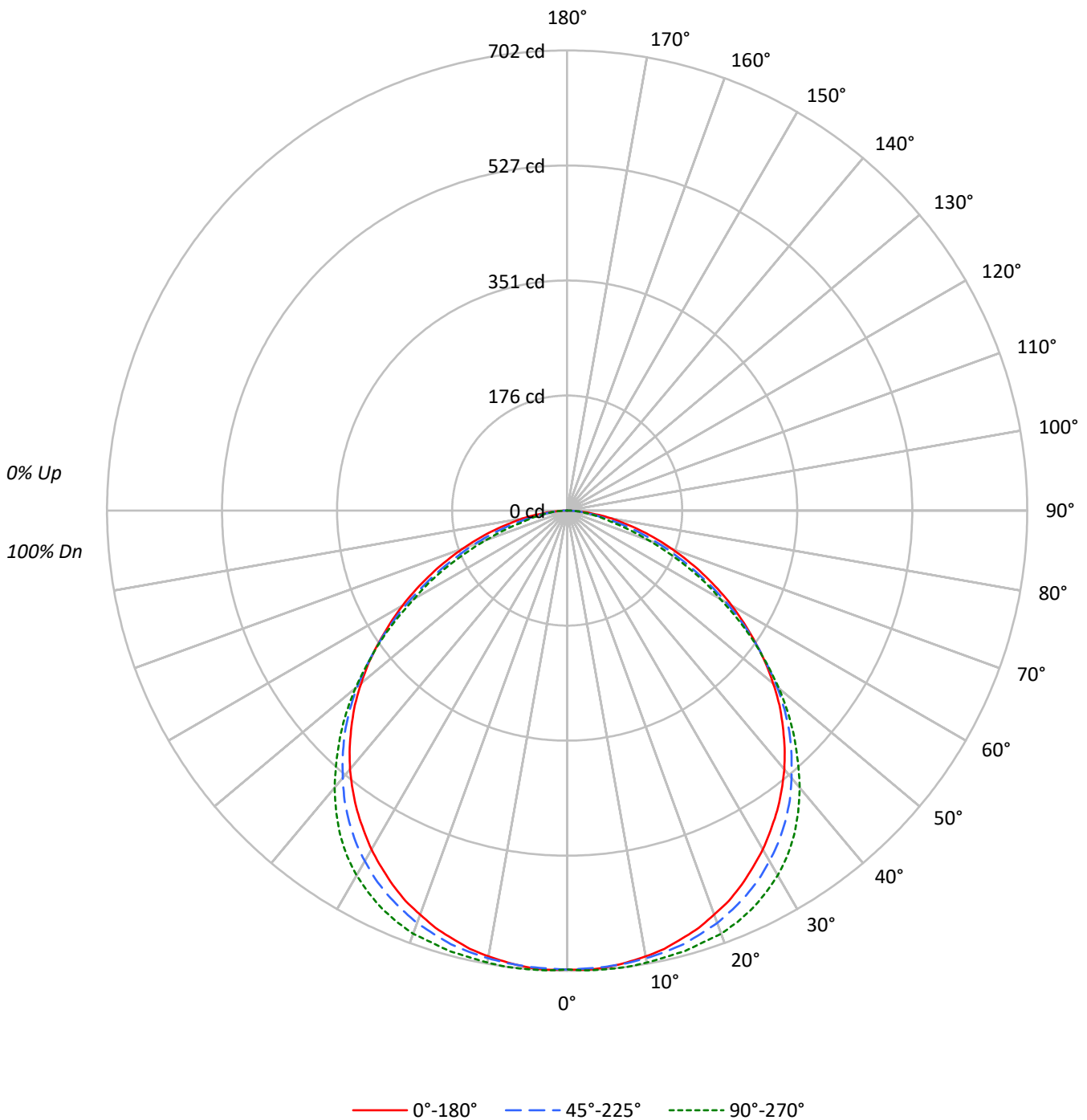
Input Watts (W): 23.901
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1884	1884	1884
5°	1889	1886	1897
10°	1887	1895	1913
15°	1884	1908	1937
20°	1878	1917	1967
25°	1870	1922	1988
30°	1856	1918	1996
35°	1835	1905	1984
40°	1810	1871	1939
45°	1770	1826	1866
50°	1718	1750	1766
55°	1645	1640	1631
60°	1560	1509	1452
65°	1454	1349	1275
70°	1327	1183	1031
75°	1192	981	771
80°	1060	716	671
85°	834	596	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.4
10°-20°	193.7	10.0
20°-30°	299.0	15.4
30°-40°	362.6	18.7
40°-50°	368.2	19.0
50°-60°	311.4	16.1
60°-70°	210.7	10.9
70°-80°	101.9	5.3
80°-90°	24.9	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°	559.3	28.8
0°-40°	922.0	47.5
0°-60°	1601.5	82.6
0°-90°	1939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	699	699	698	701	702	66
15°	676	680	685	692	695	191
25°	630	635	647	664	669	290
35°	559	564	580	598	604	349
45°	465	466	480	489	490	359
55°	351	348	350	350	348	313
65°	228	219	212	203	200	226
75°	115	106	94	82	74	122
85°	27	21	19	19	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.2	700.2	700.2	700.2	700.2
2.5°	701.2	701.2	699.3	701.2	702.2
5°	699.3	699.3	698.3	701.2	702.2
7.5°	695.4	696.4	696.4	700.2	702.2
10°	690.6	692.5	693.5	699.3	700.2
12.5°	684.8	686.8	689.6	696.4	697.4
15°	676.2	680.0	684.8	692.5	695.4
17.5°	667.5	671.3	677.1	687.7	690.6
20°	655.9	660.8	669.4	681.9	686.8
22.5°	644.4	648.2	658.8	674.2	679.1
25°	629.9	634.7	647.3	663.6	669.4
27.5°	613.6	620.3	633.8	651.1	656.9
30°	597.2	603.0	617.4	636.7	642.5
32.5°	577.9	583.7	600.1	618.4	625.1
35°	558.7	564.4	579.8	598.1	603.9
37.5°	537.5	541.3	557.7	573.1	578.9
40°	515.3	518.2	532.6	548.1	551.9
42.5°	491.2	493.2	506.6	520.1	521.1
45°	465.2	466.2	479.7	489.3	490.3
47.5°	439.2	438.3	449.8	456.6	457.5
50°	410.3	410.3	418.0	421.9	421.9
52.5°	381.4	379.5	383.4	386.2	383.4
55°	350.6	347.7	349.6	349.6	347.7
57.5°	319.8	314.0	315.0	313.0	308.2
60°	289.9	283.2	280.3	273.5	269.7
62.5°	259.1	251.4	245.6	237.9	236.9
65°	228.3	218.6	211.9	203.2	200.3
67.5°	198.4	189.7	180.1	170.5	164.7
70°	168.6	158.9	150.3	137.7	131.0
72.5°	141.6	132.9	122.3	107.9	103.1
75°	114.6	106.0	94.4	81.9	74.2
77.5°	88.6	81.9	69.4	58.8	57.8
80°	68.4	60.7	46.2	43.3	43.3
82.5°	44.3	39.5	32.7	30.8	30.8
85°	27.0	21.2	19.3	19.3	19.3
87.5°	10.6	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)