

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: P295801

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295801
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-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2839.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

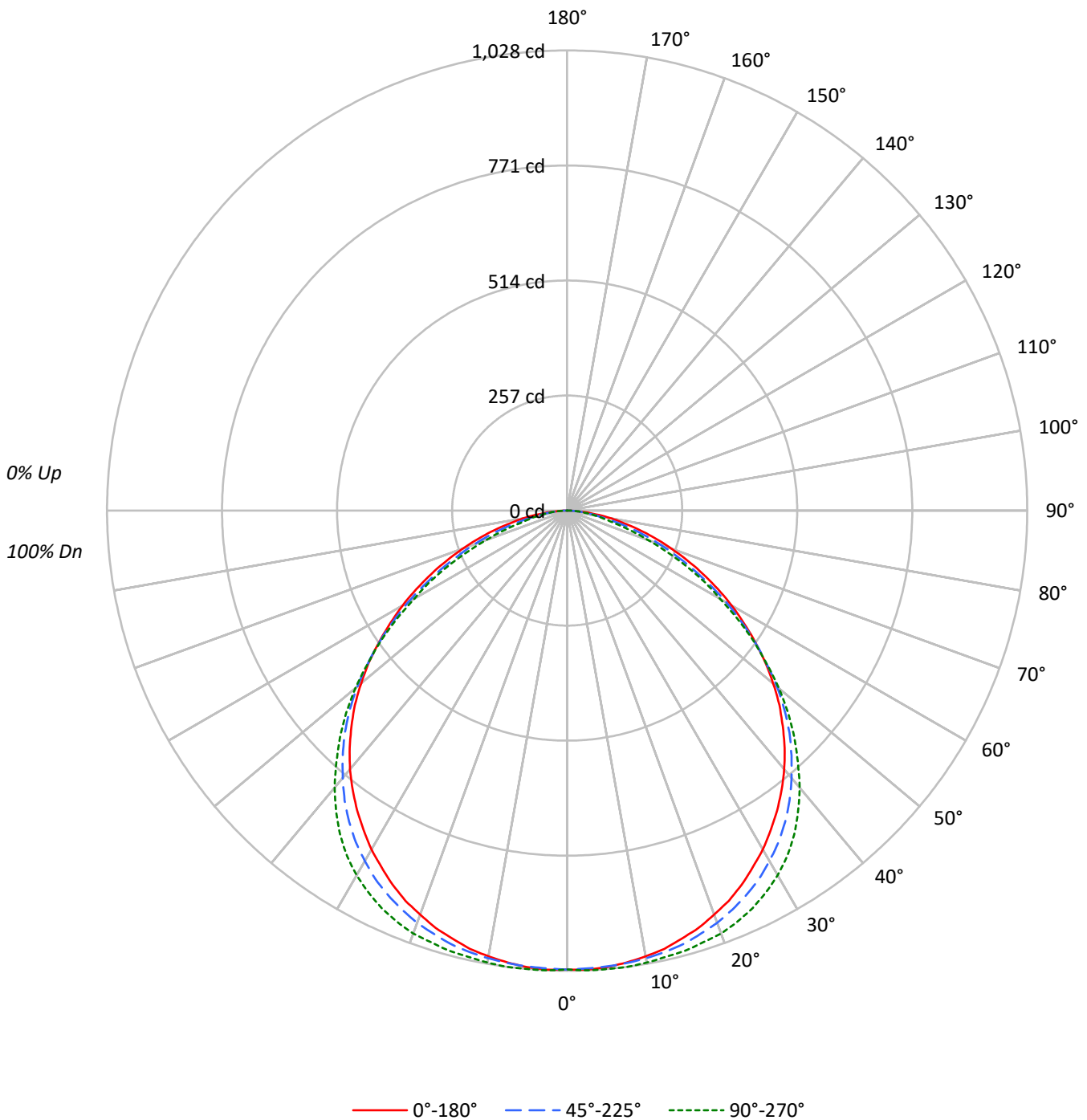
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2759	2759	2759
5°	2766	2762	2777
10°	2763	2775	2802
15°	2758	2793	2837
20°	2750	2807	2879
25°	2738	2814	2910
30°	2717	2809	2923
35°	2687	2789	2905
40°	2650	2740	2839
45°	2592	2673	2732
50°	2515	2563	2586
55°	2408	2402	2388
60°	2285	2209	2125
65°	2128	1976	1868
70°	1942	1731	1509
75°	1745	1437	1129
80°	1551	1049	984
85°	1220	871	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	3.4
10°-20°	283.6	10.0
20°-30°	437.7	15.4
30°-40°	530.9	18.7
40°-50°	539.0	19.0
50°-60°	456.0	16.1
60°-70°	308.5	10.9
70°-80°	149.2	5.3
80°-90°	36.4	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°	819.0	28.8
0°-40°	1349.9	47.5
0°-60°	2344.9	82.6
0°-90°	2839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1024	1024	1022	1027	1028	97
15°	990	996	1003	1014	1018	280
25°	922	929	948	972	980	425
35°	818	826	849	876	884	511
45°	681	683	702	716	718	525
55°	513	509	512	512	509	459
65°	334	320	310	298	293	331
75°	168	155	138	120	109	179
85°	40	31	28	28	28	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.3	1025.3	1025.3	1025.3	1025.3
2.5°	1026.7	1026.7	1023.9	1026.7	1028.1
5°	1023.9	1023.9	1022.4	1026.7	1028.1
7.5°	1018.2	1019.6	1019.6	1025.3	1028.1
10°	1011.2	1014.0	1015.4	1023.9	1025.3
12.5°	1002.7	1005.5	1009.8	1019.6	1021.0
15°	990.0	995.7	1002.7	1014.0	1018.2
17.5°	977.3	983.0	991.4	1006.9	1011.2
20°	960.4	967.4	980.1	998.5	1005.5
22.5°	943.5	949.1	964.6	987.2	994.2
25°	922.3	929.4	947.7	971.7	980.1
27.5°	898.3	908.2	928.0	953.3	961.8
30°	874.4	882.8	904.0	932.2	940.7
32.5°	846.2	854.6	878.6	905.4	915.3
35°	818.0	826.4	849.0	875.8	884.2
37.5°	786.9	792.6	816.5	839.1	847.6
40°	754.5	758.7	779.9	802.4	808.1
42.5°	719.2	722.1	741.8	761.5	763.0
45°	681.2	682.6	702.3	716.4	717.8
47.5°	643.1	641.7	658.6	668.5	669.9
50°	600.8	600.8	612.1	617.7	617.7
52.5°	558.5	555.6	561.3	565.5	561.3
55°	513.3	509.1	511.9	511.9	509.1
57.5°	468.2	459.7	461.2	458.3	451.3
60°	424.5	414.6	410.4	400.5	394.9
62.5°	379.4	368.1	359.6	348.3	346.9
65°	334.2	320.1	310.3	297.6	293.3
67.5°	290.5	277.8	263.7	249.6	241.2
70°	246.8	232.7	220.0	201.7	191.8
72.5°	207.3	194.6	179.1	158.0	150.9
75°	167.8	155.1	138.2	119.9	108.6
77.5°	129.7	119.9	101.5	86.0	84.6
80°	100.1	88.8	67.7	63.5	63.5
82.5°	64.9	57.8	47.9	45.1	45.1
85°	39.5	31.0	28.2	28.2	28.2
87.5°	15.5	14.1	14.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)