

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: P295728

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295728
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-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3019.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

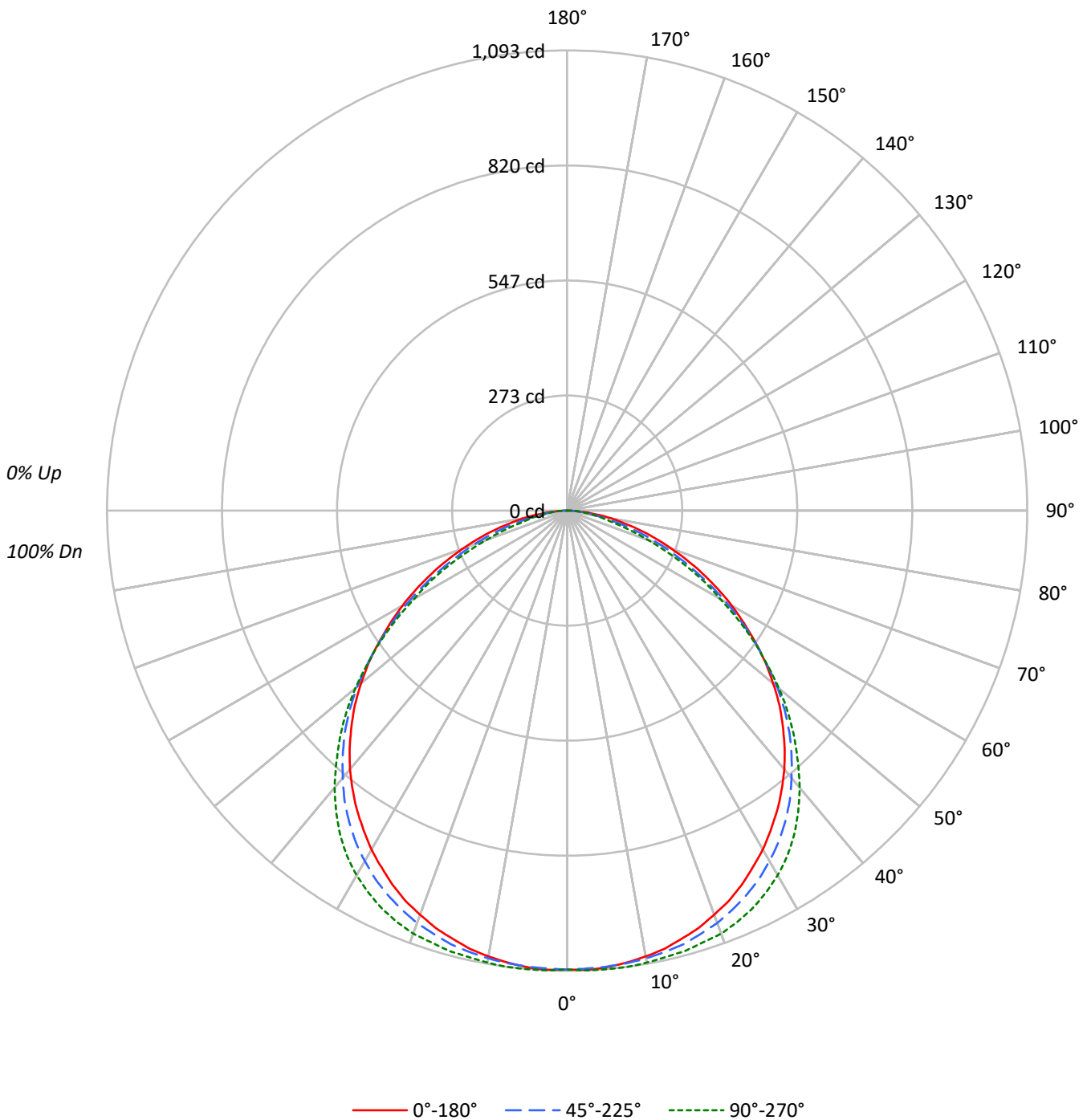
Input Watts (W): 33.945
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295728

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P295728

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4000K

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°	2934	2934	2934
5°	2941	2937	2953
10°	2938	2951	2979
15°	2933	2971	3017
20°	2925	2985	3062
25°	2912	2992	3095
30°	2889	2987	3108
35°	2857	2966	3089
40°	2818	2913	3019
45°	2756	2842	2905
50°	2675	2725	2750
55°	2561	2554	2540
60°	2429	2349	2260
65°	2263	2101	1986
70°	2065	1841	1605
75°	1856	1528	1201
80°	1650	1116	1046
85°	1297	926	926



TEST NUMBER: P295728

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.4
10°-20°	301.6	10.0
20°-30°	465.5	15.4
30°-40°	564.6	18.7
40°-50°	573.2	19.0
50°-60°	484.9	16.1
60°-70°	328.1	10.9
70°-80°	158.7	5.3
80°-90°	38.7	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°	870.9	28.8
0°-40°	1435.5	47.5
0°-60°	2493.6	82.6
0°-90°	3019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1089	1089	1087	1092	1093	103
15°	1053	1059	1066	1078	1083	297
25°	981	988	1008	1033	1042	452
35°	870	879	903	931	940	544
45°	724	726	747	762	763	559
55°	546	541	544	544	541	488
65°	355	340	330	316	312	352
75°	178	165	147	128	116	190
85°	42	33	30	30	30	49
90°	0	0	0	0	0	



TEST NUMBER: P295728

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1091.8	1091.8	1088.8	1091.8	1093.3
5°	1088.8	1088.8	1087.3	1091.8	1093.3
7.5°	1082.8	1084.3	1084.3	1090.3	1093.3
10°	1075.3	1078.3	1079.8	1088.8	1090.3
12.5°	1066.3	1069.3	1073.8	1084.3	1085.8
15°	1052.8	1058.8	1066.3	1078.3	1082.8
17.5°	1039.3	1045.3	1054.3	1070.8	1075.3
20°	1021.3	1028.8	1042.3	1061.8	1069.3
22.5°	1003.3	1009.3	1025.8	1049.8	1057.3
25°	980.8	988.3	1007.8	1033.3	1042.3
27.5°	955.3	965.8	986.8	1013.8	1022.8
30°	929.8	938.8	961.3	991.3	1000.3
32.5°	899.8	908.8	934.3	962.8	973.3
35°	869.8	878.8	902.8	931.3	940.3
37.5°	836.8	842.8	868.3	892.3	901.3
40°	802.3	806.8	829.3	853.3	859.3
42.5°	764.8	767.8	788.8	809.8	811.3
45°	724.3	725.8	746.8	761.8	763.3
47.5°	683.9	682.4	700.4	710.9	712.4
50°	638.9	638.9	650.9	656.9	656.9
52.5°	593.9	590.9	596.9	601.4	596.9
55°	545.9	541.4	544.4	544.4	541.4
57.5°	497.9	488.9	490.4	487.4	479.9
60°	451.4	440.9	436.4	425.9	419.9
62.5°	403.4	391.4	382.4	370.4	368.9
65°	355.4	340.4	329.9	316.4	311.9
67.5°	308.9	295.4	280.4	265.4	256.4
70°	262.4	247.4	234.0	214.5	204.0
72.5°	220.5	207.0	190.5	168.0	160.5
75°	178.5	165.0	147.0	127.5	115.5
77.5°	138.0	127.5	108.0	91.5	90.0
80°	106.5	94.5	72.0	67.5	67.5
82.5°	69.0	61.5	51.0	48.0	48.0
85°	42.0	33.0	30.0	30.0	30.0
87.5°	16.5	15.0	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)