

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: P295731

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295731
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-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3145.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

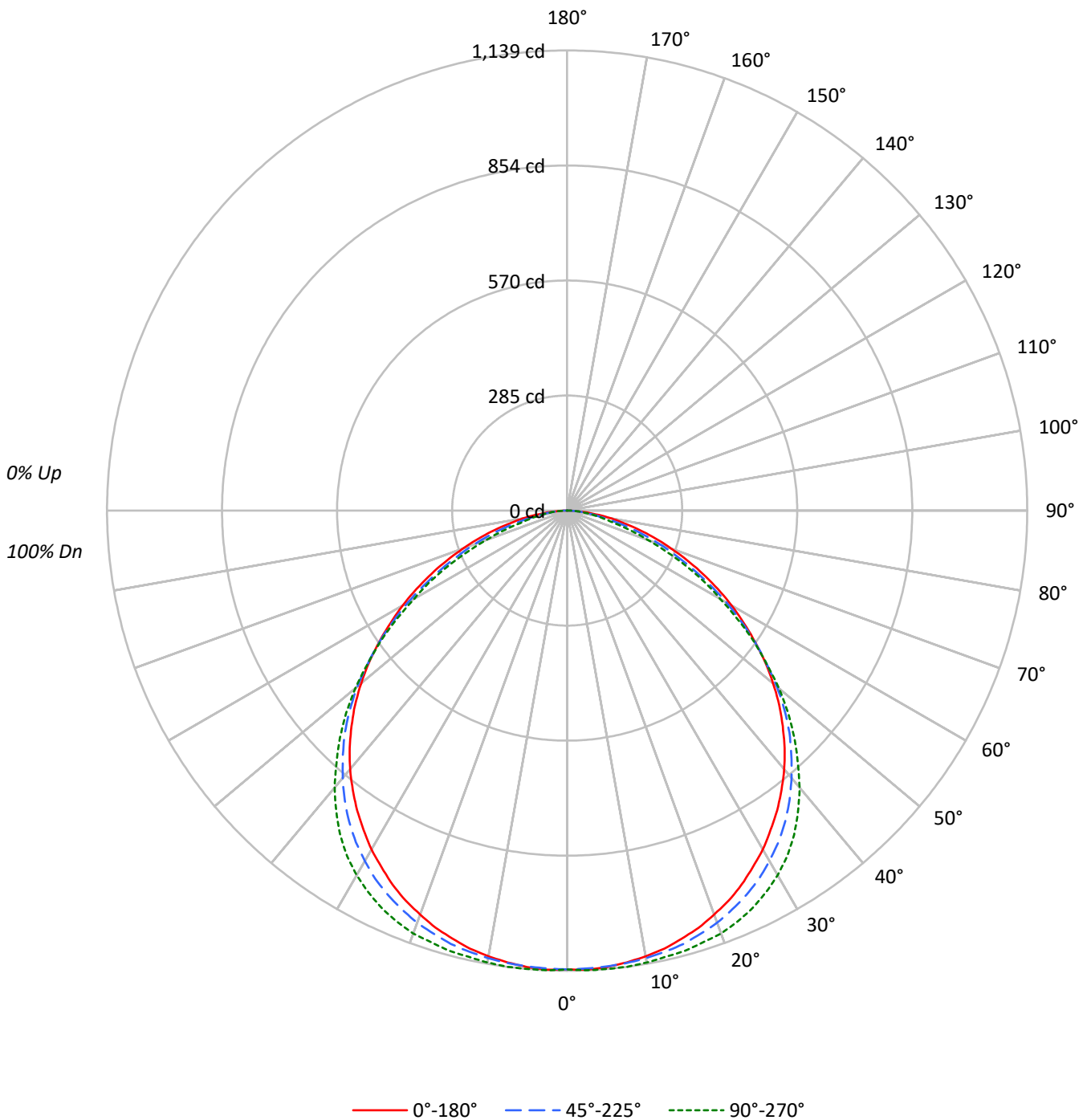
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295731

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P295731

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5500K

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°	3056	3056	3056
5°	3064	3059	3076
10°	3061	3074	3104
15°	3055	3095	3143
20°	3047	3109	3190
25°	3034	3117	3224
30°	3010	3112	3238
35°	2977	3090	3218
40°	2936	3035	3145
45°	2872	2961	3026
50°	2786	2838	2865
55°	2668	2661	2646
60°	2531	2447	2354
65°	2358	2188	2069
70°	2151	1917	1672
75°	1933	1592	1251
80°	1719	1162	1089
85°	1349	963	963



TEST NUMBER: P295731

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.4
10°-20°	314.2	10.0
20°-30°	484.9	15.4
30°-40°	588.1	18.7
40°-50°	597.1	19.0
50°-60°	505.1	16.1
60°-70°	341.8	10.9
70°-80°	165.3	5.3
80°-90°	40.3	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°	907.3	28.8
0°-40°	1495.4	47.5
0°-60°	2597.7	82.6
0°-90°	3145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1134	1134	1133	1137	1139	108
15°	1097	1103	1111	1123	1128	310
25°	1022	1030	1050	1076	1086	471
35°	906	916	940	970	980	566
45°	755	756	778	794	795	582
55°	569	564	567	567	564	508
65°	370	355	344	330	325	367
75°	186	172	153	133	120	198
85°	44	34	31	31	31	51
90°	0	0	0	0	0	



TEST NUMBER: P295731

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.8	1135.8	1135.8	1135.8	<i>1135.8</i>
2.5°	<i>1137.3</i>	<i>1137.3</i>	<i>1134.2</i>	<i>1137.3</i>	<i>1138.9</i>
5°	1134.2	1134.2	1132.6	1137.3	<i>1138.9</i>
7.5°	1128.0	1129.5	1129.5	1135.8	<i>1138.9</i>
10°	1120.2	1123.3	1124.8	1134.2	<i>1135.8</i>
12.5°	1110.8	1113.9	1118.6	1129.5	<i>1131.1</i>
15°	1096.7	1103.0	1110.8	1123.3	<i>1128.0</i>
17.5°	1082.7	1088.9	1098.3	1115.5	<i>1120.2</i>
20°	1063.9	1071.7	1085.8	1106.1	<i>1113.9</i>
22.5°	1045.2	1051.4	1068.6	1093.6	<i>1101.4</i>
25°	1021.7	1029.5	1049.8	1076.4	<i>1085.8</i>
27.5°	995.2	1006.1	1028.0	1056.1	<i>1065.5</i>
30°	968.6	978.0	1001.4	1032.7	<i>1042.0</i>
32.5°	937.4	946.7	973.3	1003.0	<i>1013.9</i>
35°	906.1	915.5	940.5	970.2	<i>979.5</i>
37.5°	871.7	878.0	904.6	929.6	<i>938.9</i>
40°	835.8	840.5	863.9	888.9	<i>895.2</i>
42.5°	796.8	799.9	821.8	843.6	<i>845.2</i>
45°	754.6	756.1	778.0	793.6	<i>795.2</i>
47.5°	712.4	710.8	729.6	740.5	<i>742.1</i>
50°	665.5	665.5	678.0	684.3	<i>684.3</i>
52.5°	618.7	615.5	621.8	626.5	<i>621.8</i>
55°	568.7	564.0	567.1	567.1	<i>564.0</i>
57.5°	518.7	509.3	510.9	507.7	<i>499.9</i>
60°	470.2	459.3	454.6	443.7	<i>437.4</i>
62.5°	420.3	407.8	398.4	385.9	<i>384.3</i>
65°	370.3	354.6	343.7	329.6	<i>325.0</i>
67.5°	321.8	307.8	292.1	276.5	<i>267.1</i>
70°	273.4	257.8	243.7	223.4	<i>212.5</i>
72.5°	229.7	215.6	198.4	175.0	<i>167.2</i>
75°	185.9	171.9	153.1	132.8	<i>120.3</i>
77.5°	143.7	132.8	112.5	95.3	<i>93.7</i>
80°	110.9	98.4	75.0	70.3	<i>70.3</i>
82.5°	71.9	64.1	53.1	50.0	<i>50.0</i>
85°	43.7	34.4	31.2	31.2	<i>31.2</i>
87.5°	17.2	15.6	15.6	15.6	<i>15.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)