

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: P295643

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-UNV-L92765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

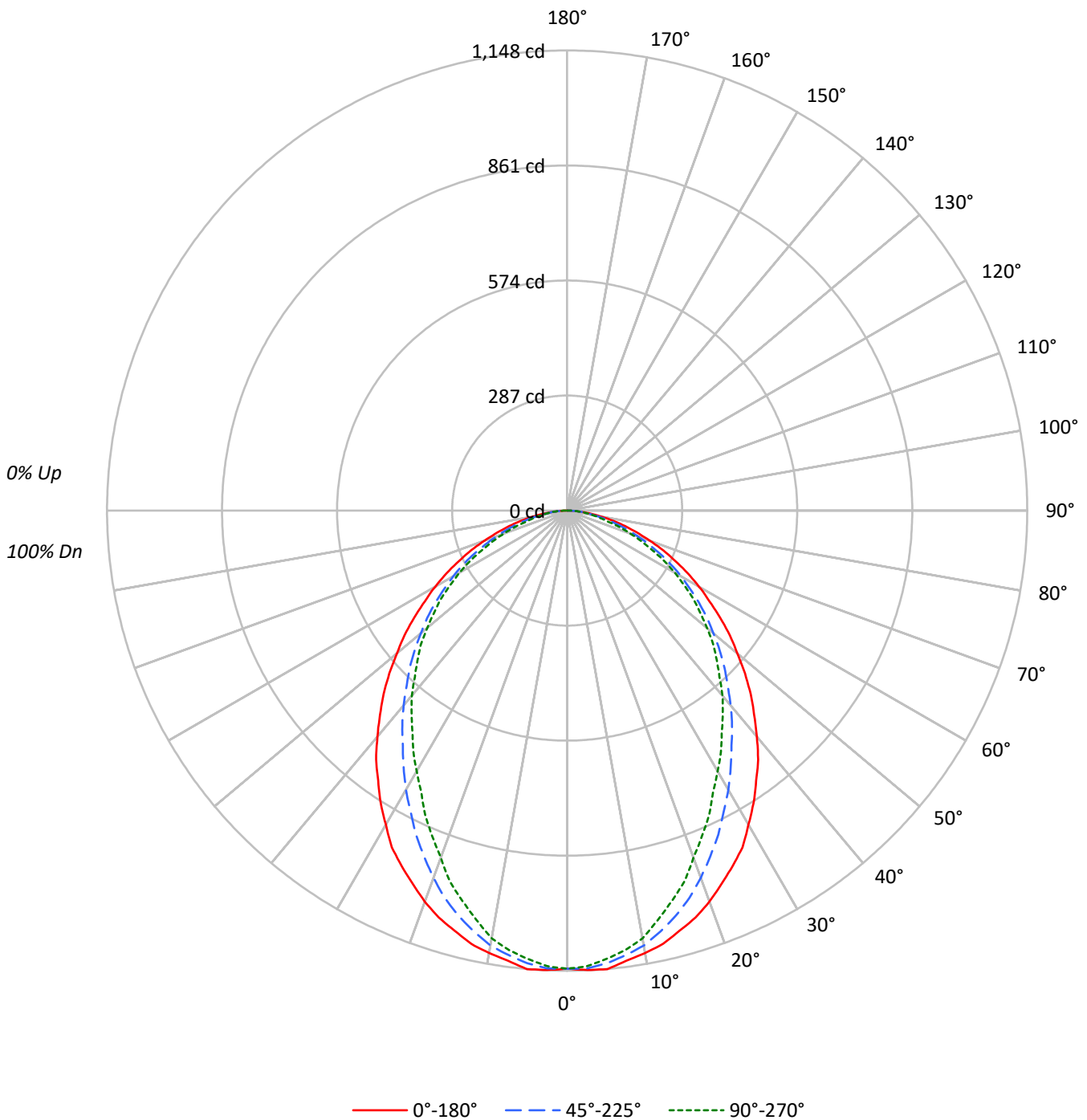
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295643

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P295643

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-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	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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3076	3076	3076
5°	3102	3062	3033
10°	3063	3010	2961
15°	3022	2916	2810
20°	2973	2791	2639
25°	2903	2648	2488
30°	2811	2499	2334
35°	2701	2349	2210
40°	2586	2229	2118
45°	2463	2112	2008
50°	2319	1996	1907
55°	2187	1884	1804
60°	2047	1767	1671
65°	1896	1633	1498
70°	1725	1467	1325
75°	1553	1311	1079
80°	1330	1068	1018
85°	1081	1013	1013



TEST NUMBER: P295643

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	4.3
10°-20°	293.7	11.7
20°-30°	412.3	16.4
30°-40°	457.3	18.2
40°-50°	439.0	17.5
50°-60°	367.9	14.7
60°-70°	258.2	10.3
70°-80°	134.9	5.4
80°-90°	37.7	1.5
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°	813.0	32.4
0°-40°	1270.3	50.7
0°-60°	2077.2	82.8
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1148	1134	1134	1126	1123	108
15°	1085	1066	1047	1019	1008	306
25°	978	943	892	848	838	450
35°	822	776	715	680	673	515
45°	647	598	555	534	528	499
55°	466	431	402	389	384	417
65°	298	278	256	240	235	296
75°	149	138	126	111	104	158
85°	35	33	33	33	33	41
90°	0	0	0	0	0	



TEST NUMBER: P295643

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.0	1143.0	1143.0	1143.0	1143.0
2.5°	1147.3	1140.9	1143.0	1143.0	1137.7
5°	1148.3	1133.5	1133.5	1126.1	1122.9
7.5°	1132.5	1120.8	1118.7	1109.1	1106.0
10°	1120.8	1109.1	1101.7	1089.0	1083.7
12.5°	1107.0	1089.0	1075.2	1054.1	1045.6
15°	1084.8	1065.7	1046.6	1019.1	1008.5
17.5°	1064.7	1042.4	1013.8	983.1	971.4
20°	1038.2	1011.7	974.6	932.2	921.6
22.5°	1007.4	976.7	933.3	887.7	879.3
25°	977.8	942.8	892.0	848.5	838.0
27.5°	947.1	904.7	846.4	799.8	789.2
30°	904.7	861.3	804.1	758.5	751.1
32.5°	865.5	822.1	759.6	722.5	714.0
35°	822.1	776.5	715.1	680.1	672.7
37.5°	782.9	729.9	675.9	642.0	637.7
40°	736.3	688.6	634.6	609.1	602.8
42.5°	690.7	643.0	592.2	569.9	562.5
45°	647.3	597.5	555.1	533.9	527.6
47.5°	601.7	556.2	515.9	499.0	494.7
50°	554.0	513.8	476.7	460.8	455.5
52.5°	511.7	470.4	439.6	424.8	418.4
55°	466.1	431.2	401.5	388.8	384.5
57.5°	420.6	392.0	363.4	351.7	345.4
60°	380.3	351.7	328.4	314.6	310.4
62.5°	339.0	314.6	292.4	279.7	274.4
65°	297.7	277.6	256.4	240.5	235.2
67.5°	259.5	237.3	220.3	206.6	201.3
70°	219.3	203.4	186.4	173.7	168.4
72.5°	182.2	170.6	155.7	142.0	136.7
75°	149.4	137.7	126.1	111.2	103.8
77.5°	116.5	109.1	97.5	84.7	84.7
80°	85.8	81.6	68.9	66.7	65.7
82.5°	59.3	57.2	49.8	48.7	48.7
85°	35.0	32.8	32.8	32.8	32.8
87.5°	14.8	15.9	16.9	16.9	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)