

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: P295610

Luminaire Tested: **14RLN-LD5-26-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295610
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-L93050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2453.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

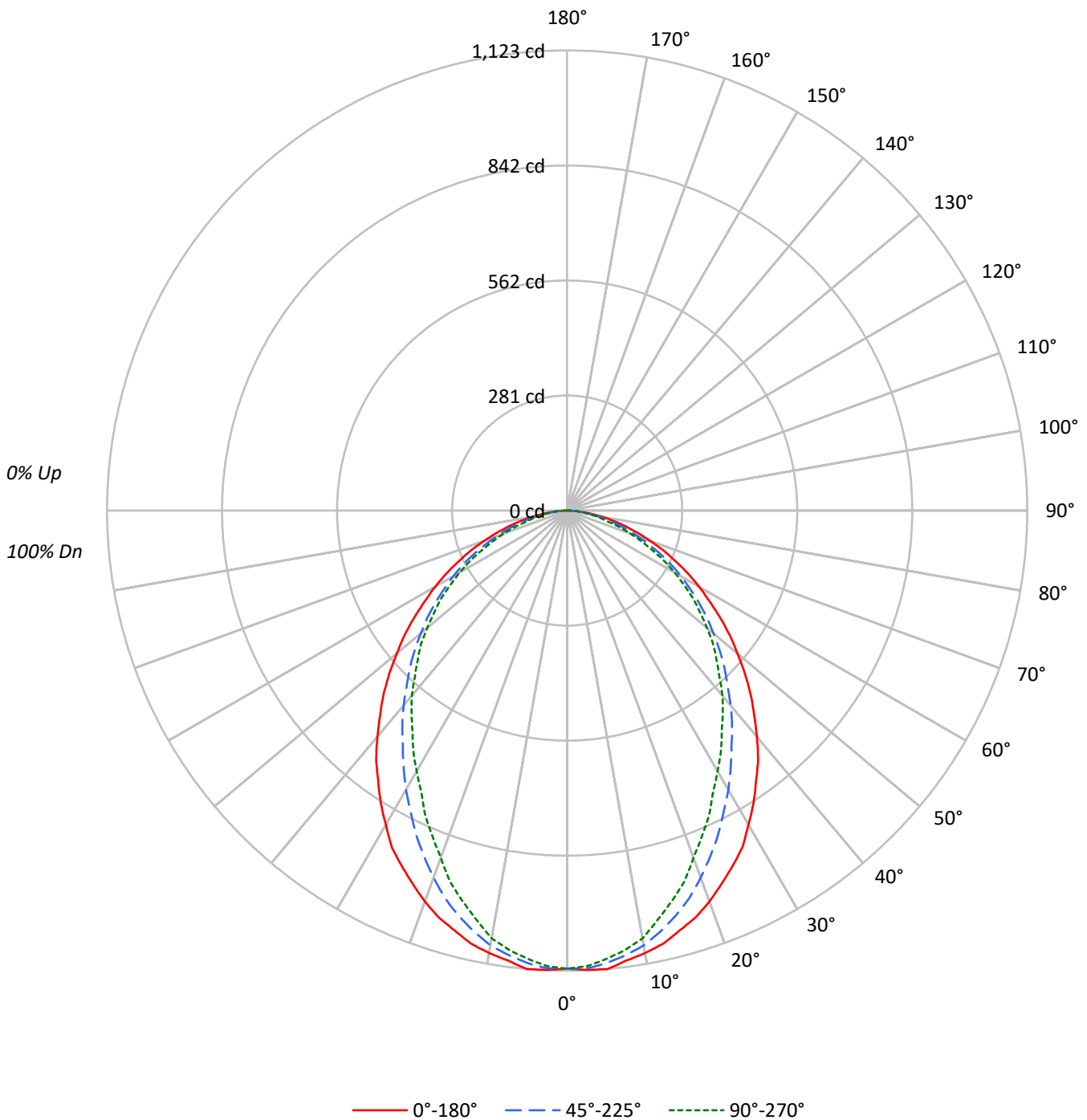
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295610

CATALOG NUMBER: 14RLN-LD5-26-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P295610

CATALOG NUMBER: 14RLN-LD5-26-UNV-L93050-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	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°	3009	3009	3009
5°	3034	2995	2967
10°	2995	2945	2896
15°	2956	2852	2748
20°	2908	2730	2581
25°	2839	2590	2434
30°	2750	2444	2283
35°	2641	2298	2161
40°	2530	2180	2071
45°	2409	2066	1964
50°	2269	1952	1865
55°	2139	1842	1765
60°	2002	1729	1634
65°	1854	1596	1465
70°	1688	1435	1296
75°	1519	1282	1055
80°	1300	1043	995
85°	1056	991	991



TEST NUMBER: P295610

CATALOG NUMBER: 14RLN-LD5-26-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	4.3
10°-20°	287.3	11.7
20°-30°	403.2	16.4
30°-40°	447.2	18.2
40°-50°	429.3	17.5
50°-60°	359.8	14.7
60°-70°	252.6	10.3
70°-80°	131.9	5.4
80°-90°	36.9	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°	795.2	32.4
0°-40°	1242.4	50.6
0°-60°	2031.6	82.8
0°-90°	2453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1123	1109	1109	1101	1098	106
15°	1061	1042	1024	997	986	299
25°	956	922	872	830	820	440
35°	804	760	699	665	658	503
45°	633	584	543	522	516	488
55°	456	422	393	380	376	408
65°	291	272	251	235	230	289
75°	146	135	123	109	102	155
85°	34	32	32	32	32	40
90°	0	0	0	0	0	



TEST NUMBER: P295610

CATALOG NUMBER: 14RLN-LD5-26-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.0	1118.0	1118.0	1118.0	1118.0
2.5°	1122.1	1115.9	1118.0	1118.0	1112.8
5°	1123.2	1108.7	1108.7	1101.4	1098.3
7.5°	1107.6	1096.2	1094.1	1084.8	1081.7
10°	1096.2	1084.8	1077.6	1065.1	1060.0
12.5°	1082.8	1065.1	1051.7	1030.9	1022.7
15°	1061.0	1042.3	1023.7	996.8	986.4
17.5°	1041.3	1019.5	991.6	961.5	950.1
20°	1015.4	989.5	953.2	911.8	901.4
22.5°	985.4	955.3	912.8	868.3	860.0
25°	956.3	922.2	872.4	829.9	819.6
27.5°	926.3	884.9	827.9	782.3	771.9
30°	884.9	842.4	786.4	741.9	734.6
32.5°	846.5	804.0	742.9	706.6	698.3
35°	804.0	759.5	699.4	665.2	657.9
37.5°	765.7	713.9	661.0	627.9	623.7
40°	720.1	673.5	620.6	595.8	589.6
42.5°	675.6	628.9	579.2	557.4	550.2
45°	633.1	584.4	542.9	522.2	516.0
47.5°	588.5	544.0	504.6	488.0	483.9
50°	541.9	502.5	466.3	450.7	445.5
52.5°	500.4	460.0	430.0	415.5	409.3
55°	455.9	421.7	392.7	380.3	376.1
57.5°	411.3	383.4	355.4	344.0	337.8
60°	372.0	344.0	321.2	307.7	303.6
62.5°	331.6	307.7	286.0	273.5	268.4
65°	291.2	271.5	250.7	235.2	230.0
67.5°	253.9	232.1	215.5	202.0	196.9
70°	214.5	198.9	182.4	169.9	164.7
72.5°	178.2	166.8	152.3	138.8	133.7
75°	146.1	134.7	123.3	108.8	101.5
77.5°	114.0	106.7	95.3	82.9	82.9
80°	83.9	79.8	67.3	65.3	64.2
82.5°	58.0	56.0	48.7	47.7	47.7
85°	34.2	32.1	32.1	32.1	32.1
87.5°	14.5	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)