

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: P295568

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295568
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-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2523.0 lumens
Efficiency: N/A
Efficacy: 106.8 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

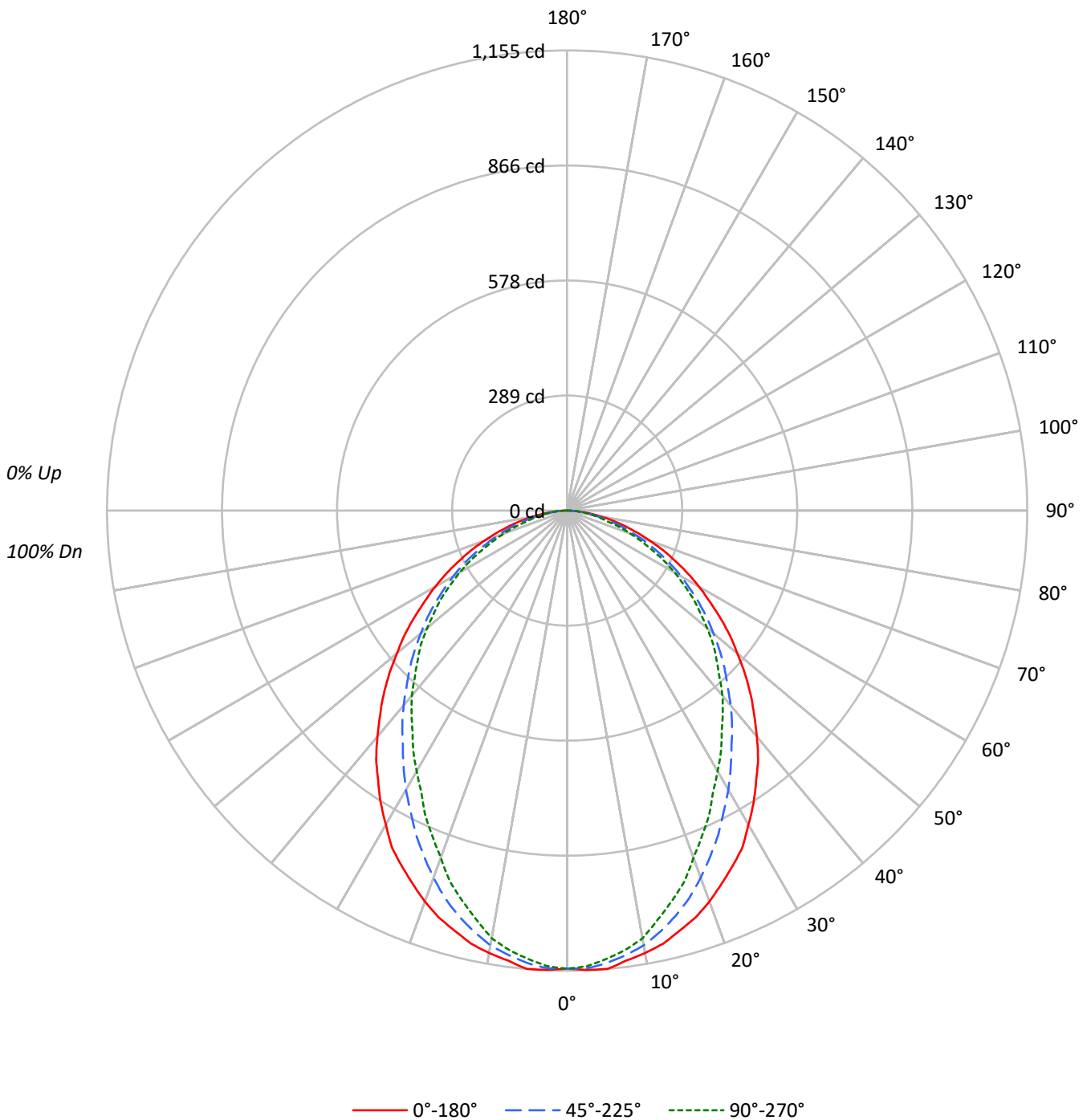
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3094	3094	3094
5°	3120	3080	3051
10°	3081	3028	2979
15°	3040	2933	2826
20°	2991	2808	2655
25°	2920	2664	2503
30°	2828	2513	2348
35°	2717	2363	2223
40°	2602	2242	2130
45°	2478	2125	2020
50°	2334	2008	1918
55°	2200	1895	1815
60°	2059	1778	1680
65°	1907	1642	1507
70°	1736	1476	1333
75°	1563	1318	1085
80°	1337	1074	1024
85°	1087	1019	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.3
10°-20°	295.5	11.7
20°-30°	414.7	16.4
30°-40°	460.0	18.2
40°-50°	441.6	17.5
50°-60°	370.1	14.7
60°-70°	259.8	10.3
70°-80°	135.7	5.4
80°-90°	38.0	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°	817.9	32.4
0°-40°	1277.9	50.7
0°-60°	2089.6	82.8
0°-90°	2523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1155	1140	1140	1133	1130	109
15°	1091	1072	1053	1025	1014	308
25°	984	948	897	854	843	453
35°	827	781	719	684	677	518
45°	651	601	558	537	531	502
55°	469	434	404	391	387	419
65°	300	279	258	242	237	298
75°	150	138	127	112	104	159
85°	35	33	33	33	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.9	1149.9	1149.9	1149.9	1149.9
2.5°	1154.1	1147.8	1149.9	1149.9	1144.6
5°	1155.2	1140.3	1140.3	1132.8	1129.6
7.5°	1139.2	1127.5	1125.4	1115.8	1112.6
10°	1127.5	1115.8	1108.3	1095.5	1090.2
12.5°	1113.6	1095.5	1081.7	1060.4	1051.8
15°	1091.3	1072.1	1052.9	1025.2	1014.5
17.5°	1071.0	1048.6	1019.9	989.0	977.2
20°	1044.4	1017.7	980.4	937.8	927.2
22.5°	1013.5	982.6	938.9	893.1	884.5
25°	983.6	948.5	897.3	853.6	843.0
27.5°	952.7	910.1	851.5	804.6	793.9
30°	910.1	866.4	808.9	763.0	755.6
32.5°	870.7	827.0	764.1	726.8	718.3
35°	827.0	781.2	719.3	684.2	676.7
37.5°	787.5	734.3	679.9	645.8	641.5
40°	740.7	692.7	638.3	612.8	606.4
42.5°	694.8	646.9	595.7	573.3	565.9
45°	651.1	601.1	558.4	537.1	530.7
47.5°	605.3	559.5	519.0	501.9	497.7
50°	557.4	516.9	479.6	463.6	458.2
52.5°	514.7	473.2	442.3	427.3	420.9
55°	468.9	433.7	403.9	391.1	386.8
57.5°	423.1	394.3	365.5	353.8	347.4
60°	382.6	353.8	330.4	316.5	312.2
62.5°	341.0	316.5	294.1	281.3	276.0
65°	299.5	279.2	257.9	241.9	236.6
67.5°	261.1	238.7	221.7	207.8	202.5
70°	220.6	204.6	187.6	174.8	169.4
72.5°	183.3	171.6	156.7	142.8	137.5
75°	150.3	138.5	126.8	111.9	104.4
77.5°	117.2	109.8	98.0	85.3	85.3
80°	86.3	82.1	69.3	67.1	66.1
82.5°	59.7	57.5	50.1	49.0	49.0
85°	35.2	33.0	33.0	33.0	33.0
87.5°	14.9	16.0	17.1	17.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)