

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: P295561

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295561
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-LD5-23-UNV-L82765-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2363.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

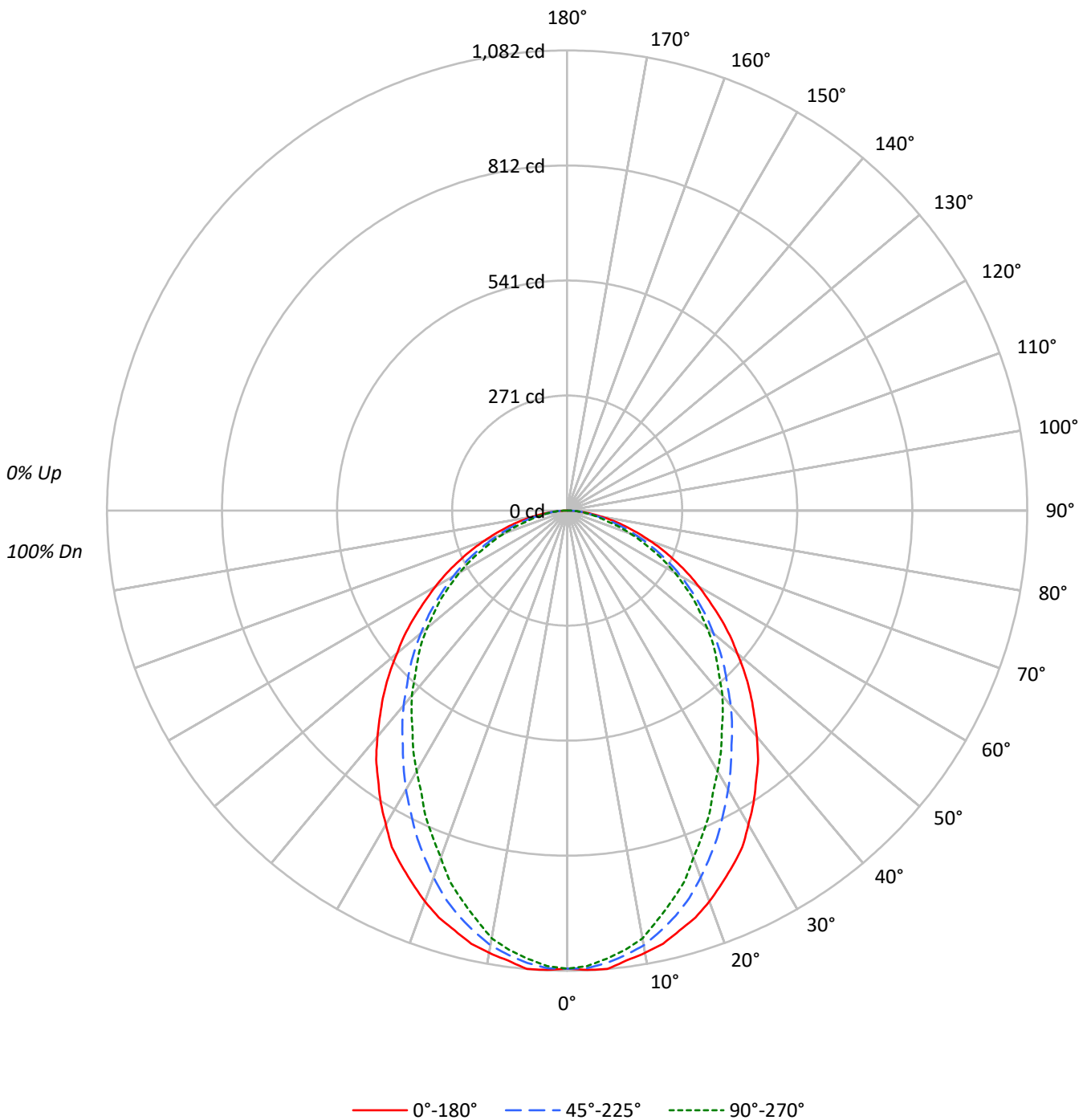
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2898	2898	2898
5°	2923	2885	2858
10°	2886	2836	2790
15°	2847	2747	2647
20°	2801	2630	2487
25°	2735	2495	2344
30°	2649	2354	2199
35°	2544	2213	2082
40°	2437	2100	1995
45°	2321	1990	1892
50°	2185	1880	1797
55°	2061	1775	1700
60°	1928	1665	1574
65°	1786	1538	1411
70°	1626	1382	1249
75°	1463	1235	1017
80°	1252	1006	959
85°	1016	954	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	4.3
10°-20°	276.8	11.7
20°-30°	388.4	16.4
30°-40°	430.8	18.2
40°-50°	413.6	17.5
50°-60°	346.6	14.7
60°-70°	243.3	10.3
70°-80°	127.1	5.4
80°-90°	35.6	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°	766.0	32.4
0°-40°	1196.9	50.7
0°-60°	1957.1	82.8
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1082	1068	1068	1061	1058	102
15°	1022	1004	986	960	950	288
25°	921	888	840	800	790	424
35°	774	732	674	641	634	485
45°	610	563	523	503	497	470
55°	439	406	378	366	362	393
65°	280	262	242	227	222	279
75°	141	130	119	105	98	149
85°	33	31	31	31	31	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1081.0	1075.0	1077.0	1077.0	1072.0
5°	1082.0	1068.0	1068.0	1061.0	1058.0
7.5°	1067.0	1056.0	1054.0	1045.0	1042.0
10°	1056.0	1045.0	1038.0	1026.1	1021.1
12.5°	1043.0	1026.1	1013.1	993.1	985.1
15°	1022.1	1004.1	986.1	960.2	950.2
17.5°	1003.1	982.1	955.2	926.2	915.3
20°	978.1	953.2	918.3	878.3	868.4
22.5°	949.2	920.3	879.3	836.4	828.4
25°	921.3	888.3	840.4	799.5	789.5
27.5°	892.3	852.4	797.5	753.6	743.6
30°	852.4	811.5	757.6	714.6	707.7
32.5°	815.5	774.5	715.6	680.7	672.7
35°	774.5	731.6	673.7	640.8	633.8
37.5°	737.6	687.7	636.8	604.9	600.9
40°	693.7	648.8	597.9	573.9	567.9
42.5°	650.8	605.9	557.9	537.0	530.0
45°	609.8	562.9	523.0	503.0	497.1
47.5°	566.9	524.0	486.1	470.1	466.1
50°	522.0	484.1	449.1	434.2	429.2
52.5°	482.1	443.2	414.2	400.2	394.3
55°	439.2	406.2	378.3	366.3	362.3
57.5°	396.2	369.3	342.4	331.4	325.4
60°	358.3	331.4	309.4	296.4	292.4
62.5°	319.4	296.4	275.5	263.5	258.5
65°	280.5	261.5	241.5	226.6	221.6
67.5°	244.5	223.6	207.6	194.6	189.6
70°	206.6	191.6	175.7	163.7	158.7
72.5°	171.7	160.7	146.7	133.7	128.8
75°	140.7	129.8	118.8	104.8	97.8
77.5°	109.8	102.8	91.8	79.8	79.8
80°	80.8	76.9	64.9	62.9	61.9
82.5°	55.9	53.9	46.9	45.9	45.9
85°	32.9	30.9	30.9	30.9	30.9
87.5°	14.0	15.0	16.0	16.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)