

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: P295562

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295562
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2405.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

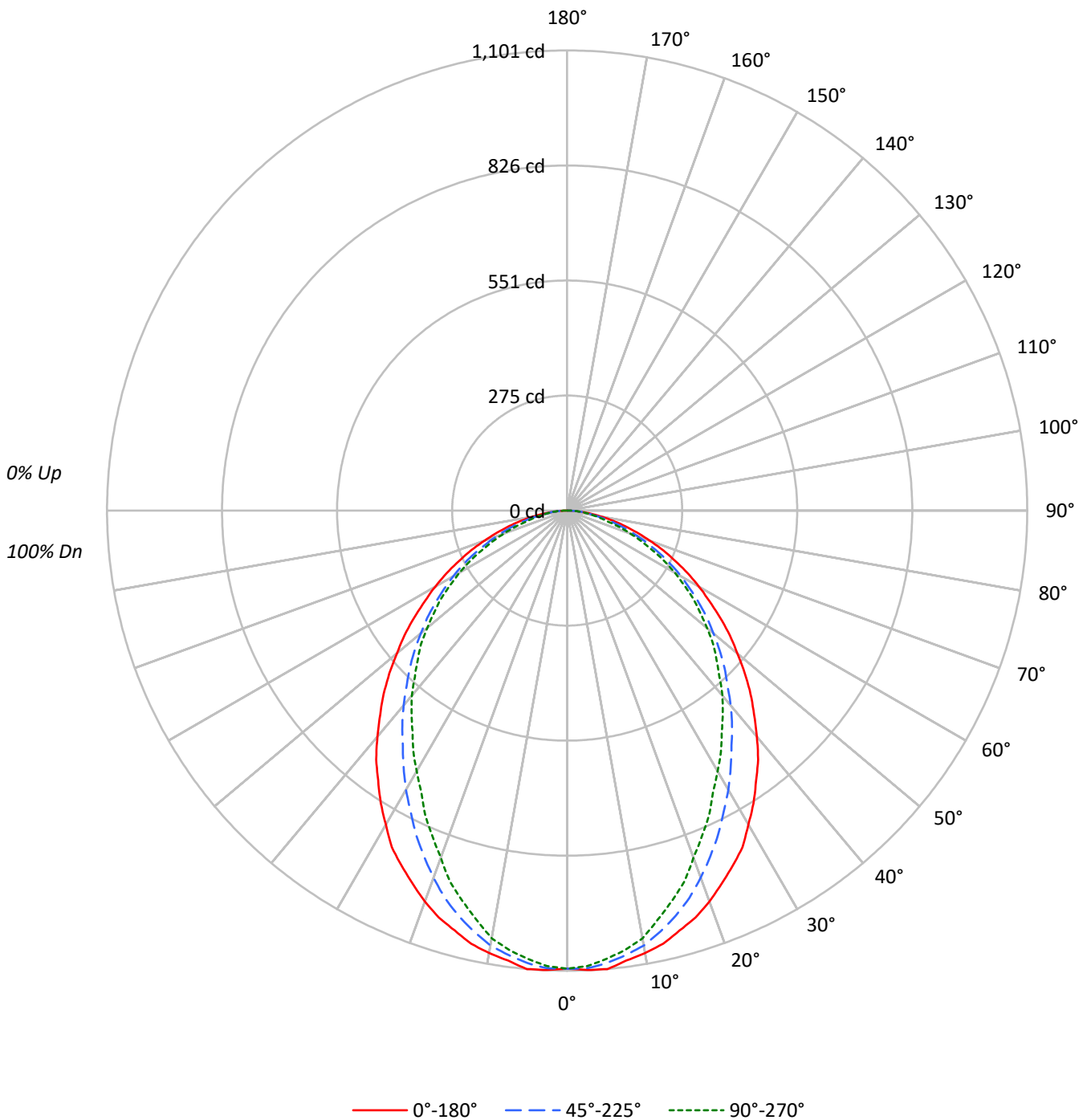
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2950	2950	2950
5°	2975	2936	2909
10°	2937	2887	2840
15°	2898	2796	2694
20°	2851	2676	2531
25°	2784	2540	2386
30°	2696	2396	2238
35°	2590	2253	2119
40°	2480	2138	2030
45°	2362	2026	1925
50°	2224	1914	1829
55°	2097	1806	1730
60°	1963	1695	1602
65°	1818	1565	1436
70°	1655	1407	1271
75°	1489	1257	1036
80°	1275	1023	976
85°	1034	973	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	4.3
10°-20°	281.7	11.7
20°-30°	395.3	16.4
30°-40°	438.5	18.2
40°-50°	420.9	17.5
50°-60°	352.8	14.7
60°-70°	247.6	10.3
70°-80°	129.3	5.4
80°-90°	36.2	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°	779.6	32.4
0°-40°	1218.1	50.6
0°-60°	1991.9	82.8
0°-90°	2405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1101	1087	1087	1080	1077	104
15°	1040	1022	1004	977	967	293
25°	938	904	855	814	804	432
35°	788	745	686	652	645	494
45°	621	573	532	512	506	478
55°	447	414	385	373	369	400
65°	286	266	246	231	226	284
75°	143	132	121	107	100	152
85°	34	32	32	32	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.1	1096.1	1096.1	1096.1	1096.1
2.5°	1100.2	1094.1	1096.1	1096.1	1091.0
5°	1101.2	1087.0	1087.0	1079.8	1076.8
7.5°	1085.9	1074.8	1072.7	1063.6	1060.5
10°	1074.8	1063.6	1056.5	1044.3	1039.2
12.5°	1061.6	1044.3	1031.1	1010.8	1002.6
15°	1040.2	1021.9	1003.7	977.2	967.1
17.5°	1020.9	999.6	972.2	942.7	931.5
20°	995.5	970.1	934.6	893.9	883.8
22.5°	966.1	936.6	895.0	851.3	843.2
25°	937.6	904.1	855.3	813.7	803.5
27.5°	908.2	867.5	811.7	767.0	756.8
30°	867.5	825.9	771.0	727.3	720.2
32.5°	829.9	788.3	728.4	692.8	684.7
35°	788.3	744.6	685.7	652.2	645.1
37.5°	750.7	699.9	648.1	615.6	611.5
40°	706.0	660.3	608.5	584.1	578.0
42.5°	662.3	616.6	567.9	546.5	539.4
45°	620.7	572.9	532.3	512.0	505.9
47.5°	577.0	533.3	494.7	478.5	474.4
50°	531.3	492.7	457.1	441.9	436.8
52.5°	490.7	451.0	421.6	407.4	401.3
55°	447.0	413.5	385.0	372.8	368.8
57.5°	403.3	375.9	348.4	337.3	331.2
60°	364.7	337.3	314.9	301.7	297.6
62.5°	325.1	301.7	280.4	268.2	263.1
65°	285.5	266.2	245.8	230.6	225.5
67.5°	248.9	227.6	211.3	198.1	193.0
70°	210.3	195.0	178.8	166.6	161.5
72.5°	174.7	163.6	149.3	136.1	131.0
75°	143.2	132.1	120.9	106.7	99.6
77.5°	111.7	104.6	93.5	81.3	81.3
80°	82.3	78.2	66.0	64.0	63.0
82.5°	56.9	54.9	47.7	46.7	46.7
85°	33.5	31.5	31.5	31.5	31.5
87.5°	14.2	15.2	16.3	16.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)