

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: P295632

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295632
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-L92765-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2145.1 lumens
Efficiency: N/A
Efficacy: 102.1 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

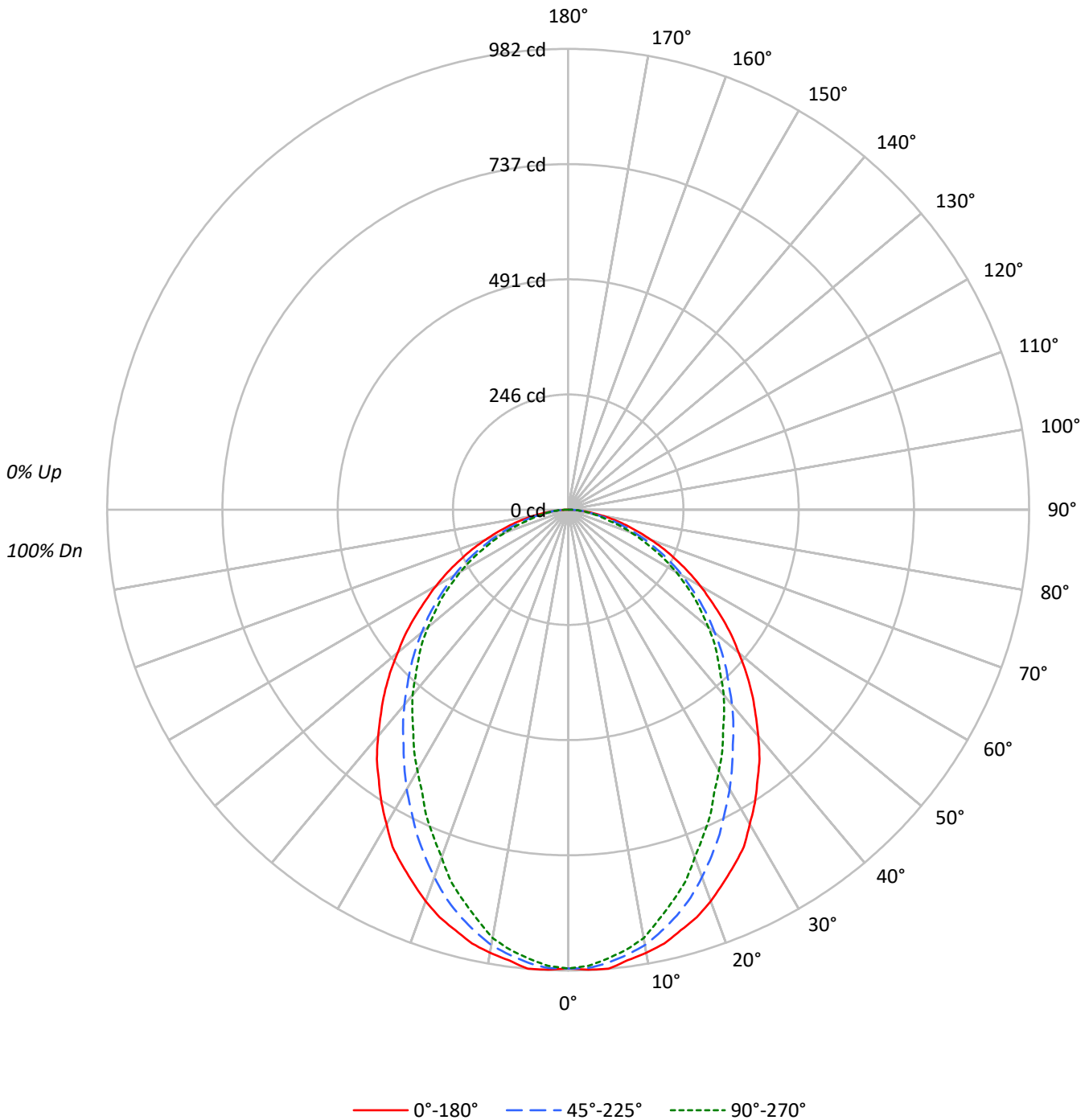
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2631	2631	2631
5°	2653	2619	2594
10°	2619	2575	2533
15°	2585	2494	2403
20°	2543	2387	2257
25°	2483	2265	2128
30°	2404	2137	1996
35°	2310	2009	1890
40°	2212	1906	1811
45°	2107	1807	1717
50°	1984	1707	1631
55°	1871	1611	1543
60°	1751	1512	1429
65°	1621	1396	1280
70°	1475	1255	1134
75°	1329	1121	923
80°	1137	913	871
85°	923	868	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	4.3
10°-20°	251.2	11.7
20°-30°	352.6	16.4
30°-40°	391.1	18.2
40°-50°	375.4	17.5
50°-60°	314.7	14.7
60°-70°	220.9	10.3
70°-80°	115.3	5.4
80°-90°	32.3	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°	695.4	32.4
0°-40°	1086.4	50.6
0°-60°	1776.5	82.8
0°-90°	2145.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	982	970	970	963	960	93
15°	928	912	895	872	862	262
25°	836	806	763	726	717	385
35°	703	664	612	582	575	440
45°	554	511	475	457	451	426
55°	399	369	343	332	329	357
65°	255	237	219	206	201	253
75°	128	118	108	95	89	135
85°	30	28	28	28	28	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.6	977.6	977.6	977.6	977.6
2.5°	981.2	975.8	977.6	977.6	973.1
5°	982.1	969.5	969.5	963.1	960.4
7.5°	968.5	958.6	956.8	948.6	945.9
10°	958.6	948.6	942.3	931.4	926.9
12.5°	946.8	931.4	919.6	901.5	894.3
15°	927.8	911.5	895.2	871.6	862.5
17.5°	910.6	891.5	867.1	840.8	830.8
20°	887.9	865.3	833.5	797.3	788.2
22.5°	861.6	835.4	798.2	759.3	752.0
25°	836.3	806.4	762.9	725.7	716.7
27.5°	810.0	773.7	723.9	684.1	675.0
30°	773.7	736.6	687.7	648.7	642.4
32.5°	740.2	703.1	649.6	617.9	610.7
35°	703.1	664.1	611.6	581.7	575.3
37.5°	669.6	624.3	578.0	549.1	545.4
40°	629.7	588.9	542.7	521.0	515.5
42.5°	590.7	550.0	506.5	487.4	481.1
45°	553.6	511.0	474.8	456.6	451.2
47.5°	514.6	475.7	441.2	426.7	423.1
50°	473.9	439.4	407.7	394.1	389.6
52.5°	437.6	402.3	376.0	363.3	357.9
55°	398.7	368.8	343.4	332.5	328.9
57.5°	359.7	335.2	310.8	300.8	295.4
60°	325.3	300.8	280.9	269.1	265.5
62.5°	289.9	269.1	250.1	239.2	234.7
65°	254.6	237.4	219.3	205.7	201.1
67.5°	222.0	203.0	188.5	176.7	172.1
70°	187.5	174.0	159.5	148.6	144.1
72.5°	155.8	145.9	133.2	121.4	116.9
75°	127.8	117.8	107.8	95.1	88.8
77.5°	99.7	93.3	83.4	72.5	72.5
80°	73.4	69.8	58.9	57.1	56.2
82.5°	50.7	48.9	42.6	41.7	41.7
85°	29.9	28.1	28.1	28.1	28.1
87.5°	12.7	13.6	14.5	14.5	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)