

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: P295639

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295639
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-L92765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2286.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

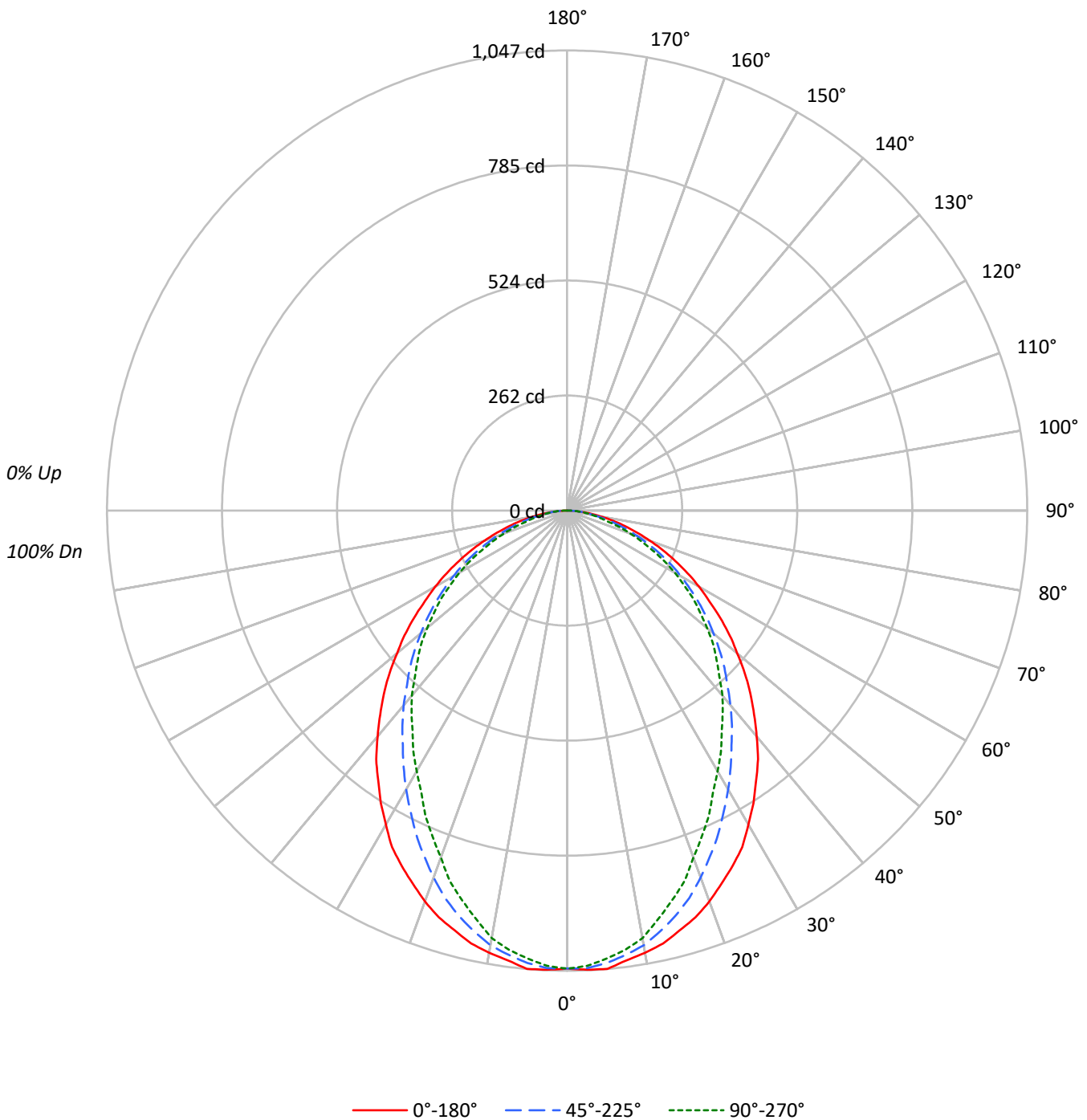
Input Watts (W): 23.901
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49					47				
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35					33				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2804	2804	2804
5°	2827	2791	2765
10°	2792	2744	2699
15°	2755	2658	2561
20°	2710	2544	2406
25°	2646	2414	2268
30°	2562	2277	2127
35°	2462	2141	2014
40°	2357	2032	1930
45°	2245	1926	1830
50°	2114	1819	1738
55°	1993	1717	1644
60°	1865	1611	1523
65°	1727	1488	1365
70°	1573	1337	1208
75°	1415	1195	984
80°	1212	973	928
85°	985	923	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	4.3
10°-20°	267.7	11.7
20°-30°	375.8	16.4
30°-40°	416.8	18.2
40°-50°	400.1	17.5
50°-60°	335.3	14.7
60°-70°	235.4	10.3
70°-80°	122.9	5.4
80°-90°	34.4	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°	741.1	32.4
0°-40°	1157.9	50.6
0°-60°	1893.3	82.8
0°-90°	2286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1047	1033	1033	1026	1024	99
15°	989	971	954	929	919	279
25°	891	859	813	773	764	410
35°	749	708	652	620	613	469
45°	590	545	506	487	481	454
55°	425	393	366	354	350	380
65°	271	253	234	219	214	270
75°	136	126	115	101	95	144
85°	32	30	30	30	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.9	1041.9	1041.9	1041.9	1041.9
2.5°	1045.7	1039.9	1041.9	1041.9	1037.0
5°	1046.7	1033.2	1033.2	1026.4	1023.5
7.5°	1032.2	1021.6	1019.7	1011.0	1008.1
10°	1021.6	1011.0	1004.2	992.6	987.8
12.5°	1009.0	992.6	980.1	960.8	953.0
15°	988.8	971.4	954.0	928.9	919.2
17.5°	970.4	950.1	924.1	896.1	885.4
20°	946.3	922.1	888.3	849.7	840.1
22.5°	918.3	890.3	850.7	809.2	801.4
25°	891.2	859.4	813.0	773.4	763.8
27.5°	863.2	824.6	771.5	729.0	719.4
30°	824.6	785.0	732.9	691.4	684.6
32.5°	788.9	749.3	692.3	658.5	650.8
35°	749.3	707.8	651.8	619.9	613.1
37.5°	713.6	665.3	616.0	585.1	581.3
40°	671.1	627.6	578.4	555.2	549.4
42.5°	629.6	586.1	539.8	519.5	512.7
45°	590.0	544.6	506.0	486.7	480.9
47.5°	548.5	506.9	470.2	454.8	450.9
50°	505.0	468.3	434.5	420.0	415.2
52.5°	466.4	428.7	400.7	387.2	381.4
55°	424.9	393.0	366.0	354.4	350.5
57.5°	383.3	357.3	331.2	320.6	314.8
60°	346.6	320.6	299.3	286.8	282.9
62.5°	309.0	286.8	266.5	254.9	250.1
65°	271.3	253.0	233.7	219.2	214.4
67.5°	236.6	216.3	200.8	188.3	183.5
70°	199.9	185.4	169.9	158.4	153.5
72.5°	166.1	155.5	141.9	129.4	124.6
75°	136.1	125.5	114.9	101.4	94.6
77.5°	106.2	99.5	88.8	77.2	77.2
80°	78.2	74.4	62.8	60.8	59.9
82.5°	54.1	52.1	45.4	44.4	44.4
85°	31.9	29.9	29.9	29.9	29.9
87.5°	13.5	14.5	15.4	15.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)