

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: P295640

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295640
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-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2360.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

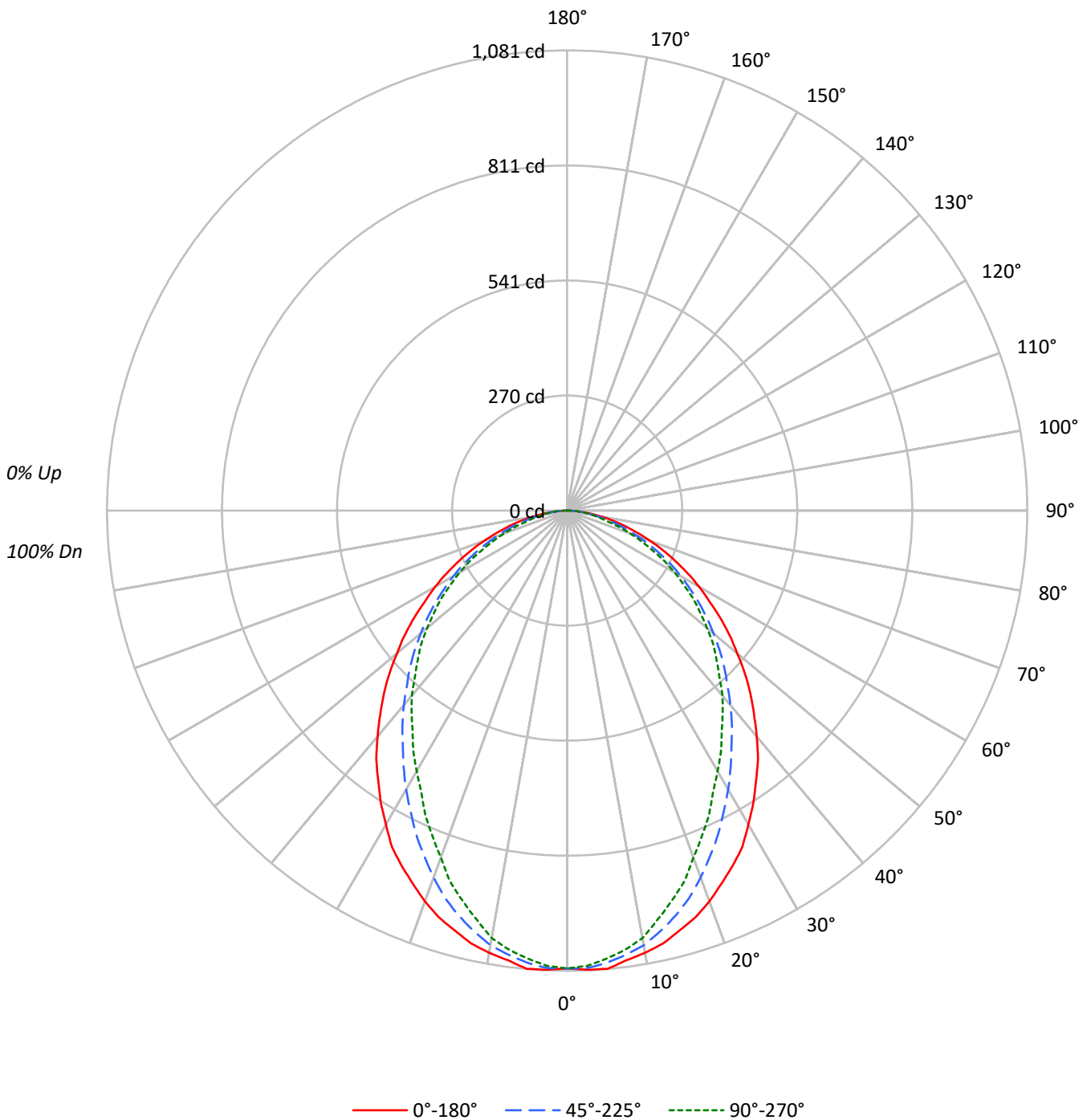
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2894	2894	2894
5°	2919	2881	2854
10°	2882	2833	2787
15°	2844	2744	2644
20°	2798	2626	2484
25°	2732	2492	2341
30°	2645	2351	2196
35°	2541	2211	2079
40°	2434	2098	1992
45°	2318	1988	1889
50°	2182	1878	1794
55°	2058	1772	1698
60°	1926	1663	1572
65°	1784	1536	1409
70°	1623	1380	1247
75°	1462	1233	1016
80°	1251	1004	958
85°	1016	954	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	4.3
10°-20°	276.4	11.7
20°-30°	387.9	16.4
30°-40°	430.3	18.2
40°-50°	413.1	17.5
50°-60°	346.2	14.7
60°-70°	243.0	10.3
70°-80°	126.9	5.4
80°-90°	35.5	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°	765.1	32.4
0°-40°	1195.3	50.7
0°-60°	1954.6	82.8
0°-90°	2360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1081	1067	1067	1060	1057	102
15°	1021	1003	985	959	949	288
25°	920	887	839	798	788	423
35°	774	731	673	640	633	484
45°	609	562	522	502	496	469
55°	439	406	378	366	362	392
65°	280	261	241	226	221	278
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°	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1079.6	1073.6	1075.6	1075.6	1070.6
5°	1080.6	1066.6	1066.6	1059.6	1056.7
7.5°	1065.6	1054.7	1052.7	1043.7	1040.7
10°	1054.7	1043.7	1036.7	1024.8	1019.8
12.5°	1041.7	1024.8	1011.8	991.9	983.9
15°	1020.8	1002.8	984.9	959.0	949.0
17.5°	1001.8	980.9	954.0	925.1	914.1
20°	976.9	952.0	917.1	877.2	867.3
22.5°	948.0	919.1	878.2	835.4	827.4
25°	920.1	887.2	839.3	798.5	788.5
27.5°	891.2	851.3	796.5	752.6	742.6
30°	851.3	810.4	756.6	713.7	706.8
32.5°	814.4	773.6	714.7	679.8	671.9
35°	773.6	730.7	672.9	640.0	633.0
37.5°	736.7	686.8	636.0	604.1	600.1
40°	692.8	647.9	597.1	573.2	567.2
42.5°	649.9	605.1	557.2	536.3	529.3
45°	609.1	562.2	522.3	502.4	496.4
47.5°	566.2	523.3	485.5	469.5	465.5
50°	521.3	483.5	448.6	433.6	428.6
52.5°	481.5	442.6	413.7	399.7	393.8
55°	438.6	405.7	377.8	365.8	361.9
57.5°	395.7	368.8	341.9	331.0	325.0
60°	357.9	331.0	309.0	296.1	292.1
62.5°	319.0	296.1	275.1	263.2	258.2
65°	280.1	261.2	241.2	226.3	221.3
67.5°	244.2	223.3	207.3	194.4	189.4
70°	206.3	191.4	175.4	163.5	158.5
72.5°	171.5	160.5	146.5	133.6	128.6
75°	140.6	129.6	118.6	104.7	97.7
77.5°	109.7	102.7	91.7	79.7	79.7
80°	80.7	76.8	64.8	62.8	61.8
82.5°	55.8	53.8	46.9	45.9	45.9
85°	32.9	30.9	30.9	30.9	30.9
87.5°	14.0	15.0	15.9	15.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)