

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: P295644

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295644
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-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2519.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

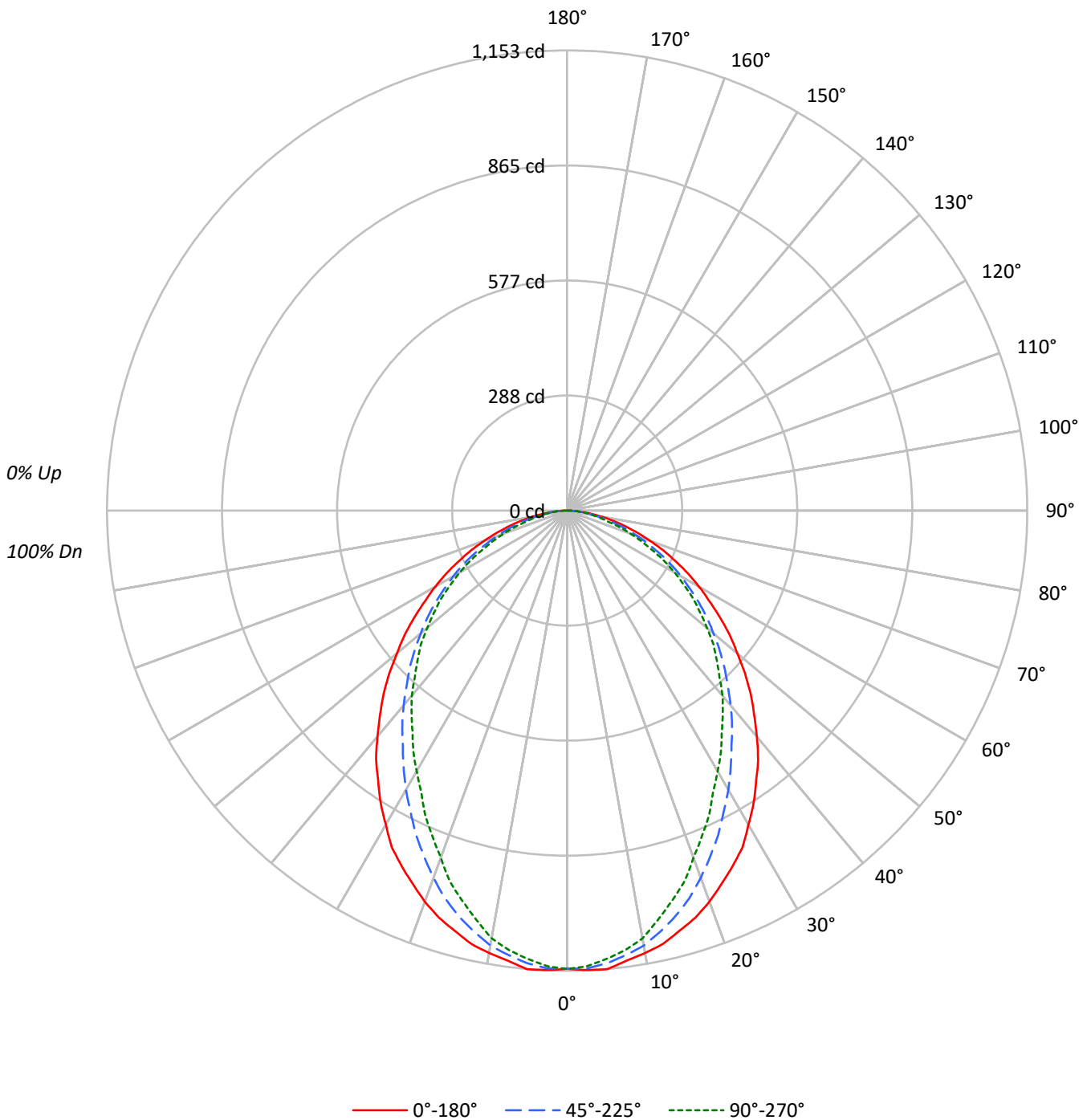
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3090	3090	3090
5°	3116	3075	3046
10°	3076	3024	2974
15°	3035	2929	2822
20°	2986	2803	2651
25°	2916	2660	2499
30°	2824	2509	2344
35°	2712	2359	2219
40°	2598	2239	2127
45°	2474	2122	2017
50°	2330	2004	1915
55°	2197	1892	1812
60°	2056	1775	1678
65°	1904	1640	1504
70°	1733	1474	1331
75°	1560	1316	1084
80°	1336	1072	1023
85°	1084	1019	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	4.3
10°-20°	295.0	11.7
20°-30°	414.1	16.4
30°-40°	459.3	18.2
40°-50°	440.9	17.5
50°-60°	369.5	14.7
60°-70°	259.4	10.3
70°-80°	135.4	5.4
80°-90°	37.9	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°	816.6	32.4
0°-40°	1275.9	50.6
0°-60°	2086.3	82.8
0°-90°	2519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1153	1138	1138	1131	1128	109
15°	1090	1070	1051	1024	1013	307
25°	982	947	896	852	842	452
35°	826	780	718	683	676	517
45°	650	600	558	536	530	501
55°	468	433	403	390	386	419
65°	299	279	258	242	236	297
75°	150	138	127	112	104	159
85°	35	33	33	33	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.1	1148.1	1148.1	1148.1	1148.1
2.5°	1152.3	1145.9	1148.1	1148.1	1142.7
5°	1153.4	1138.5	1138.5	1131.0	1127.8
7.5°	1137.4	1125.7	1123.6	1114.0	1110.8
10°	1125.7	1114.0	1106.6	1093.8	1088.5
12.5°	1111.9	1093.8	1080.0	1058.7	1050.2
15°	1089.5	1070.4	1051.2	1023.6	1012.9
17.5°	1069.3	1047.0	1018.3	987.4	975.7
20°	1042.7	1016.1	978.9	936.3	925.7
22.5°	1011.9	981.0	937.4	891.6	883.1
25°	982.1	947.0	895.9	852.3	841.6
27.5°	951.2	908.7	850.1	803.3	792.7
30°	908.7	865.0	807.6	761.8	754.4
32.5°	869.3	825.7	762.9	725.7	717.1
35°	825.7	779.9	718.2	683.1	675.6
37.5°	786.3	733.1	678.8	644.8	640.5
40°	739.5	691.6	637.3	611.8	605.4
42.5°	693.7	645.8	594.8	572.4	565.0
45°	650.1	600.1	557.5	536.3	529.9
47.5°	604.4	558.6	518.2	501.1	496.9
50°	556.5	516.0	478.8	462.8	457.5
52.5°	513.9	472.4	441.6	426.7	420.3
55°	468.2	433.0	403.3	390.5	386.2
57.5°	422.4	393.7	365.0	353.2	346.9
60°	382.0	353.2	329.8	316.0	311.8
62.5°	340.5	316.0	293.7	280.9	275.6
65°	299.0	278.8	257.5	241.5	236.2
67.5°	260.7	238.3	221.3	207.5	202.2
70°	220.2	204.3	187.3	174.5	169.2
72.5°	183.0	171.3	156.4	142.6	137.3
75°	150.0	138.3	126.6	111.7	104.3
77.5°	117.0	109.6	97.9	85.1	85.1
80°	86.2	81.9	69.2	67.0	66.0
82.5°	59.6	57.5	50.0	48.9	48.9
85°	35.1	33.0	33.0	33.0	33.0
87.5°	14.9	16.0	17.0	17.0	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)