

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: P295573

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295573
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-L82765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

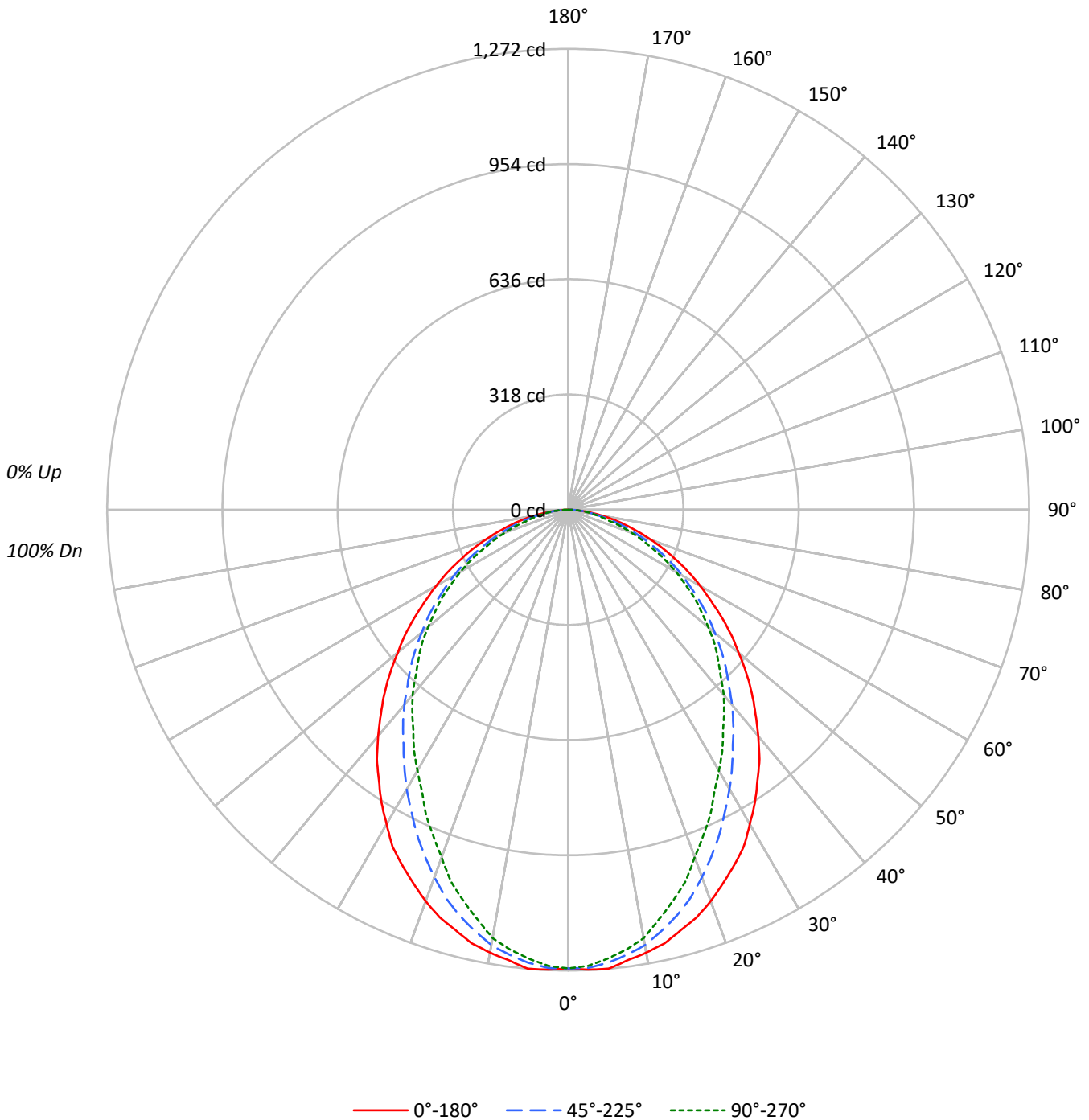
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3407	3407	3407
5°	3436	3391	3360
10°	3392	3334	3280
15°	3348	3230	3112
20°	3293	3091	2924
25°	3216	2934	2756
30°	3114	2767	2585
35°	2991	2602	2448
40°	2865	2469	2346
45°	2728	2340	2224
50°	2569	2210	2112
55°	2422	2086	1998
60°	2267	1958	1850
65°	2099	1808	1659
70°	1911	1625	1468
75°	1720	1451	1196
80°	1472	1182	1128
85°	1195	1124	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	4.3
10°-20°	325.4	11.7
20°-30°	456.6	16.4
30°-40°	506.5	18.2
40°-50°	486.2	17.5
50°-60°	407.5	14.7
60°-70°	286.0	10.3
70°-80°	149.4	5.4
80°-90°	41.8	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°	900.6	32.4
0°-40°	1407.1	50.6
0°-60°	2300.8	82.8
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1272	1256	1256	1247	1244	120
15°	1202	1180	1159	1129	1117	339
25°	1083	1044	988	940	928	498
35°	911	860	792	753	745	570
45°	717	662	615	591	584	552
55°	516	478	445	431	426	462
65°	330	307	284	266	260	328
75°	165	152	140	123	115	175
85°	39	36	36	36	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1266.1	1266.1	1266.1	1266.1	1266.1
2.5°	1270.8	1263.8	1266.1	1266.1	1260.2
5°	1272.0	1255.5	1255.5	1247.3	1243.8
7.5°	1254.4	1241.5	1239.1	1228.6	1225.0
10°	1241.5	1228.6	1220.3	1206.3	1200.4
12.5°	1226.2	1206.3	1191.0	1167.5	1158.1
15°	1201.6	1180.4	1159.3	1128.8	1117.1
17.5°	1179.3	1154.6	1122.9	1088.9	1076.0
20°	1149.9	1120.6	1079.5	1032.6	1020.9
22.5°	1115.9	1081.9	1033.8	983.3	973.9
25°	1083.1	1044.3	988.0	939.9	928.2
27.5°	1049.0	1002.1	937.5	885.9	874.2
30°	1002.1	954.0	890.6	840.2	831.9
32.5°	958.7	910.6	841.3	800.3	790.9
35°	910.6	860.1	792.0	753.3	745.1
37.5°	867.1	808.5	748.6	711.1	706.4
40°	815.5	762.7	702.9	674.7	667.7
42.5°	765.1	712.3	655.9	631.3	623.1
45°	716.9	661.8	614.9	591.4	584.4
47.5°	666.5	616.0	571.4	552.7	548.0
50°	613.7	569.1	528.0	510.4	504.6
52.5°	566.8	521.0	487.0	470.5	463.5
55°	516.3	477.6	444.7	430.6	425.9
57.5°	465.8	434.2	402.5	389.6	382.5
60°	421.3	389.6	363.8	348.5	343.8
62.5°	375.5	348.5	323.9	309.8	303.9
65°	329.7	307.4	284.0	266.4	260.5
67.5°	287.5	262.8	244.1	228.8	222.9
70°	242.9	225.3	206.5	192.4	186.6
72.5°	201.8	188.9	172.5	157.2	151.4
75°	165.4	152.5	139.6	123.2	115.0
77.5°	129.1	120.9	108.0	93.9	93.9
80°	95.0	90.4	76.3	73.9	72.8
82.5°	65.7	63.4	55.1	54.0	54.0
85°	38.7	36.4	36.4	36.4	36.4
87.5°	16.4	17.6	18.8	18.8	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)