

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: P295541

Luminaire Tested: **14RLN-LD5-26-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295541
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-L83050-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2832.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

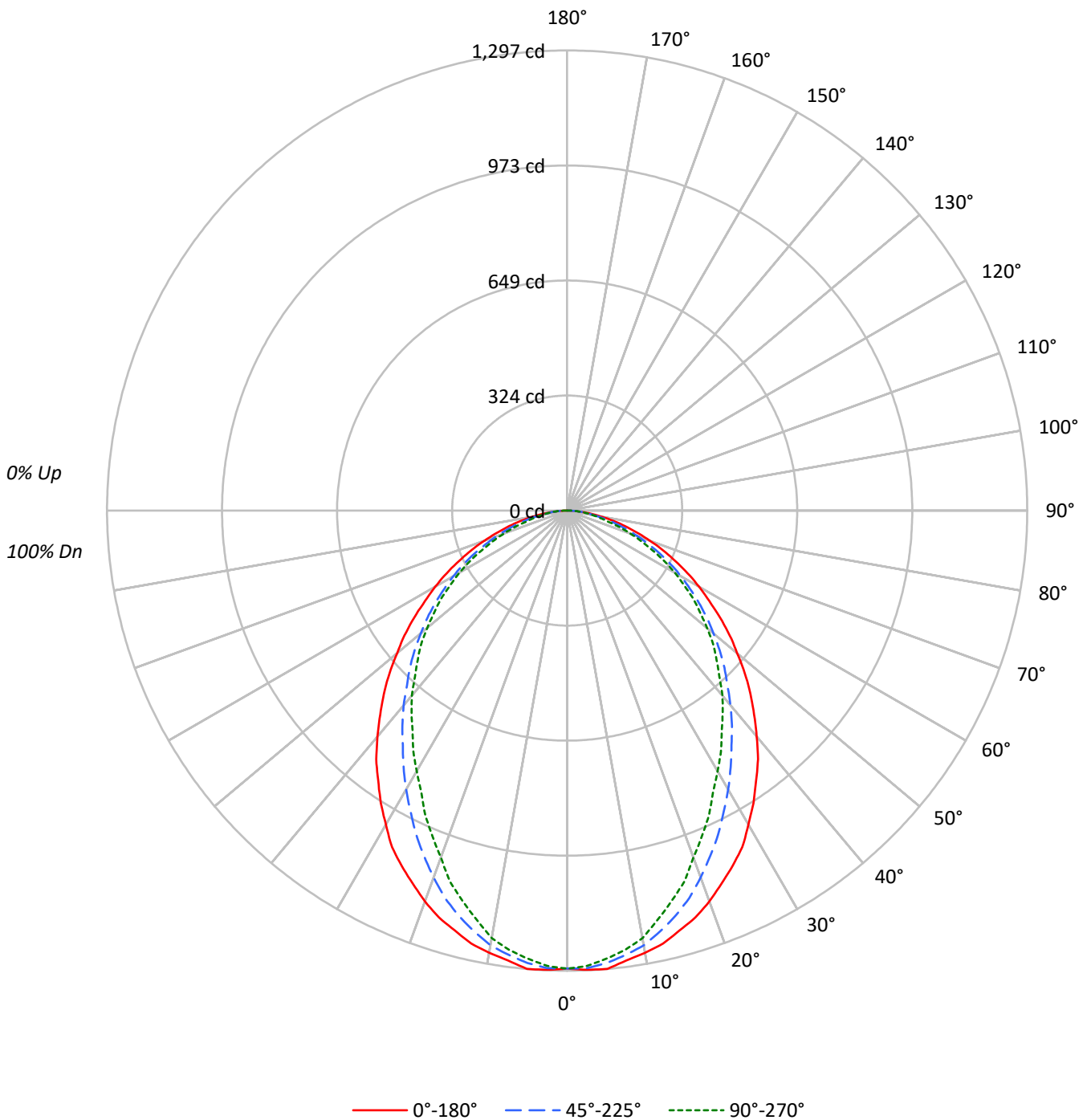
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3473	3473	3473
5°	3503	3457	3425
10°	3458	3399	3344
15°	3412	3293	3173
20°	3357	3151	2980
25°	3278	2991	2809
30°	3174	2821	2635
35°	3050	2652	2495
40°	2921	2517	2391
45°	2782	2385	2267
50°	2619	2254	2153
55°	2469	2127	2037
60°	2311	1996	1886
65°	2140	1843	1691
70°	1948	1656	1496
75°	1754	1480	1219
80°	1502	1206	1150
85°	1220	1145	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	4.3
10°-20°	331.7	11.7
20°-30°	465.5	16.4
30°-40°	516.3	18.2
40°-50°	495.7	17.5
50°-60°	415.4	14.7
60°-70°	291.6	10.3
70°-80°	152.3	5.4
80°-90°	42.6	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°	918.1	32.4
0°-40°	1434.4	50.6
0°-60°	2345.5	82.8
0°-90°	2832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1297	1280	1280	1272	1268	122
15°	1225	1203	1182	1151	1139	346
25°	1104	1065	1007	958	946	508
35°	928	877	807	768	760	581
45°	731	675	627	603	596	563
55°	526	487	453	439	434	471
65°	336	313	290	272	266	334
75°	169	156	142	126	117	179
85°	40	37	37	37	37	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.7	1290.7	1290.7	1290.7	1290.7
2.5°	1295.5	1288.3	1290.7	1290.7	1284.7
5°	1296.7	1279.9	1279.9	1271.6	1268.0
7.5°	1278.8	1265.6	1263.2	1252.4	1248.8
10°	1265.6	1252.4	1244.1	1229.7	1223.7
12.5°	1250.0	1229.7	1214.2	1190.2	1180.7
15°	1224.9	1203.4	1181.9	1150.8	1138.8
17.5°	1202.2	1177.1	1144.8	1110.1	1096.9
20°	1172.3	1142.4	1100.5	1052.7	1040.7
22.5°	1137.6	1102.9	1053.9	1002.4	992.9
25°	1104.1	1064.6	1007.2	958.2	946.2
27.5°	1069.4	1021.6	955.8	903.1	891.2
30°	1021.6	972.5	907.9	856.5	848.1
32.5°	977.3	928.3	857.7	815.8	806.2
35°	928.3	876.8	807.4	768.0	759.6
37.5°	884.0	824.2	763.2	724.9	720.1
40°	831.4	777.5	716.5	687.8	680.6
42.5°	779.9	726.1	668.7	643.6	635.2
45°	730.9	674.7	626.8	602.9	595.7
47.5°	679.4	628.0	582.6	563.4	558.6
50°	625.6	580.2	538.3	520.4	514.4
52.5°	577.8	531.1	496.4	479.7	472.5
55°	526.3	486.9	453.4	439.0	434.2
57.5°	474.9	442.6	410.3	397.1	390.0
60°	429.4	397.1	370.8	355.3	350.5
62.5°	382.8	355.3	330.2	315.8	309.8
65°	336.1	313.4	289.5	271.5	265.6
67.5°	293.1	268.0	248.8	233.3	227.3
70°	247.6	229.7	210.5	196.2	190.2
72.5°	205.7	192.6	175.8	160.3	154.3
75°	168.7	155.5	142.3	125.6	117.2
77.5°	131.6	123.2	110.1	95.7	95.7
80°	96.9	92.1	77.8	75.4	74.2
82.5°	67.0	64.6	56.2	55.0	55.0
85°	39.5	37.1	37.1	37.1	37.1
87.5°	16.7	17.9	19.1	19.1	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)