

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: P295656

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295656  
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-LD5-35-UNV-L92765-W2A1-U-3000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2905.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

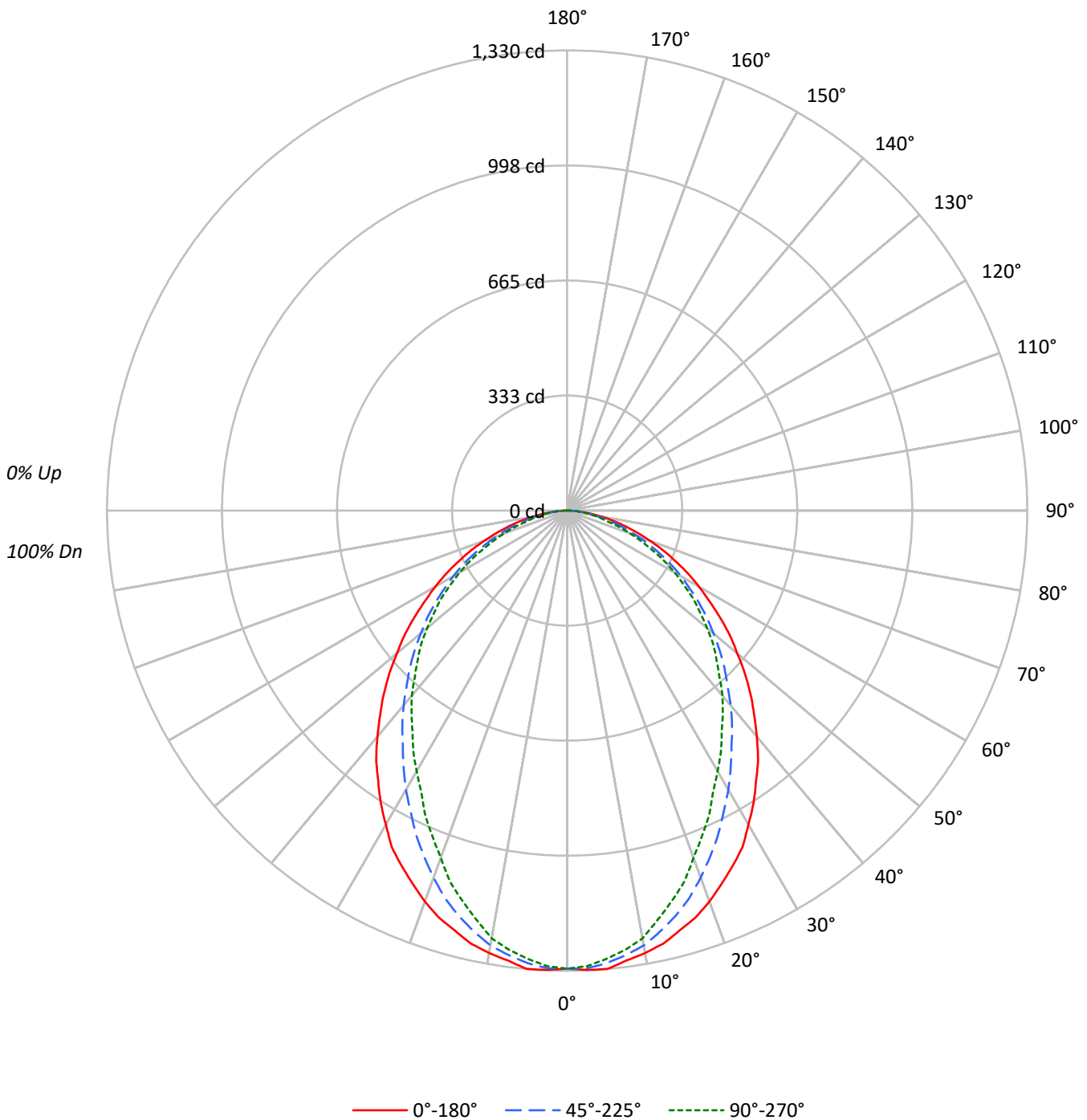
Input Watts (W): 33.294  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3563	3563	3563
5°	3593	3546	3514
10°	3547	3487	3430
15°	3500	3377	3254
20°	3444	3233	3057
25°	3363	3068	2882
30°	3256	2894	2703
35°	3128	2721	2560
40°	2996	2582	2453
45°	2853	2447	2326
50°	2686	2312	2209
55°	2533	2182	2090
60°	2371	2047	1935
65°	2195	1890	1734
70°	1998	1699	1535
75°	1799	1518	1251
80°	1540	1237	1179
85°	1250	1173	1173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	4.3
10°-20°	340.2	11.7
20°-30°	477.5	16.4
30°-40°	529.7	18.2
40°-50°	508.5	17.5
50°-60°	426.1	14.7
60°-70°	299.1	10.3
70°-80°	156.2	5.4
80°-90°	43.7	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°	941.7	32.4
0°-40°	1471.4	50.6
0°-60°	2406.0	82.8
0°-90°	2905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1330	1313	1313	1304	1301	126
15°	1256	1234	1212	1180	1168	355
25°	1133	1092	1033	983	971	521
35°	952	899	828	788	779	596
45°	750	692	643	618	611	577
55°	540	499	465	450	445	483
65°	345	322	297	278	272	343
75°	173	160	146	129	120	183
85°	40	38	38	38	38	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1328.9	1321.5	1324.0	1324.0	1317.8
5°	1330.1	1312.9	1312.9	1304.4	1300.7
7.5°	1311.7	1298.2	1295.8	1284.7	1281.0
10°	1298.2	1284.7	1276.1	1261.4	1255.3
12.5°	1282.3	1261.4	1245.5	1220.9	1211.1
15°	1256.5	1234.4	1212.3	1180.4	1168.1
17.5°	1233.2	1207.4	1174.3	1138.7	1125.2
20°	1202.5	1171.8	1128.9	1079.8	1067.5
22.5°	1166.9	1131.3	1081.0	1028.3	1018.4
25°	1132.6	1092.1	1033.2	982.9	970.6
27.5°	1097.0	1047.9	980.4	926.4	914.1
30°	1047.9	997.6	931.3	878.6	870.0
32.5°	1002.5	952.2	879.8	836.8	827.0
35°	952.2	899.4	828.3	787.8	779.2
37.5°	906.8	845.4	782.9	743.6	738.7
40°	852.8	797.6	735.0	705.6	698.2
42.5°	800.0	744.8	685.9	660.2	651.6
45°	749.7	692.1	643.0	618.4	611.1
47.5°	697.0	644.2	597.6	577.9	573.0
50°	641.7	595.1	552.2	533.8	527.6
52.5°	592.7	544.8	509.2	492.0	484.7
55°	539.9	499.4	465.1	450.3	445.4
57.5°	487.1	454.0	420.9	407.4	400.0
60°	440.5	407.4	380.4	364.4	359.5
62.5°	392.7	364.4	338.7	323.9	317.8
65°	344.8	321.5	296.9	278.5	272.4
67.5°	300.6	274.9	255.2	239.3	233.1
70°	254.0	235.6	216.0	201.2	195.1
72.5°	211.1	197.6	180.4	164.4	158.3
75°	173.0	159.5	146.0	128.8	120.3
77.5°	135.0	126.4	112.9	98.2	98.2
80°	99.4	94.5	79.8	77.3	76.1
82.5°	68.7	66.3	57.7	56.4	56.4
85°	40.5	38.0	38.0	38.0	38.0
87.5°	17.2	18.4	19.6	19.6	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)