

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: P295587

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295587
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-L82765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3482.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

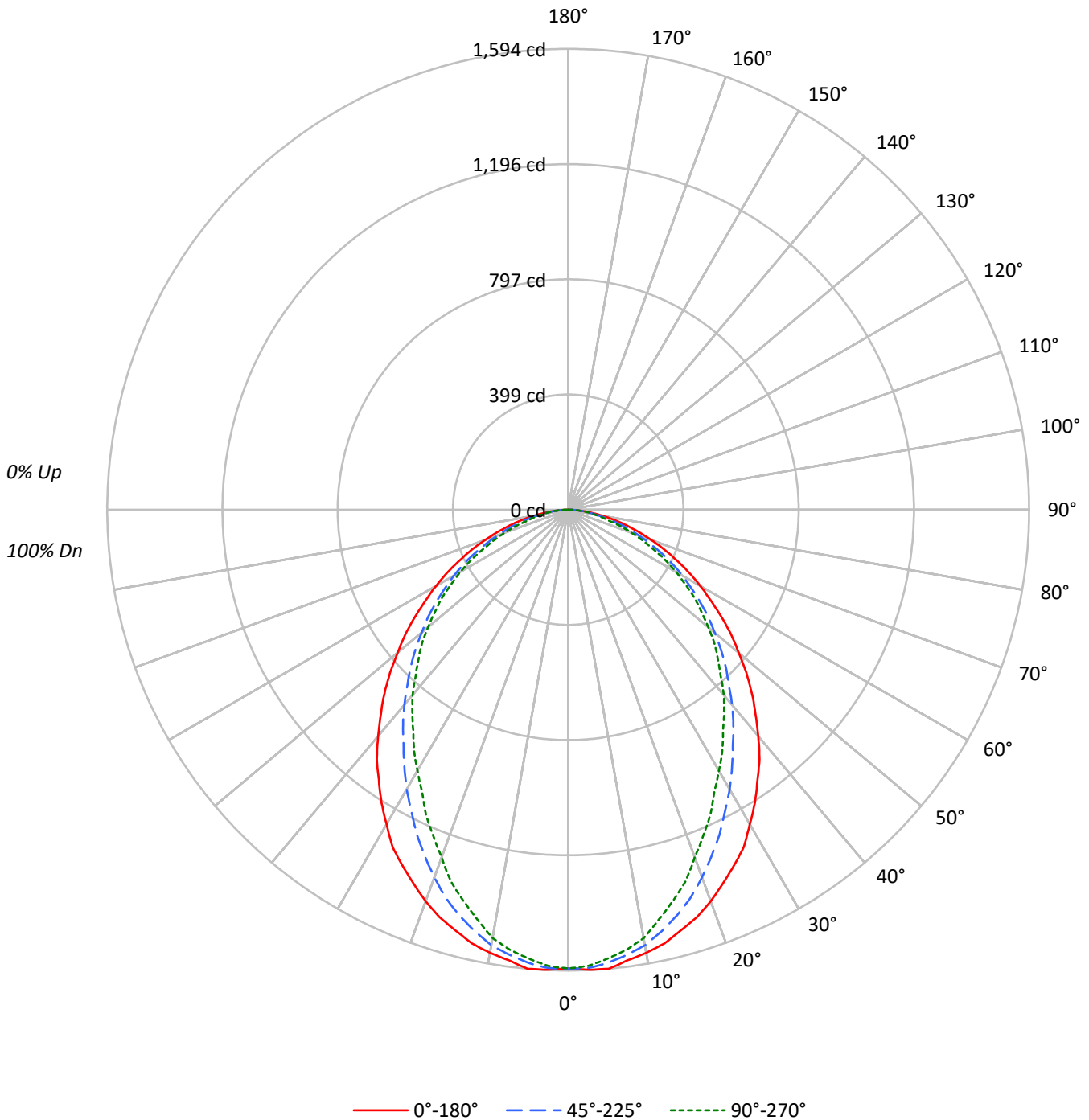
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4271	4271	4271
5°	4307	4251	4211
10°	4252	4180	4111
15°	4196	4048	3901
20°	4128	3875	3664
25°	4031	3677	3454
30°	3903	3469	3240
35°	3749	3261	3068
40°	3591	3095	2940
45°	3420	2933	2787
50°	3220	2771	2647
55°	3036	2615	2505
60°	2842	2454	2319
65°	2632	2266	2079
70°	2395	2037	1840
75°	2156	1820	1498
80°	1846	1481	1413
85°	1497	1408	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	4.3
10°-20°	407.8	11.7
20°-30°	572.4	16.4
30°-40°	634.8	18.2
40°-50°	609.5	17.5
50°-60°	510.8	14.7
60°-70°	358.5	10.3
70°-80°	187.2	5.4
80°-90°	52.4	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°	1128.8	32.4
0°-40°	1763.6	50.6
0°-60°	2883.9	82.8
0°-90°	3482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1594	1574	1574	1563	1559	151
15°	1506	1480	1453	1415	1400	425
25°	1358	1309	1238	1178	1163	625
35°	1141	1078	993	944	934	715
45°	899	830	771	741	732	692
55°	647	599	557	540	534	579
65°	413	385	356	334	326	411
75°	207	191	175	154	144	220
85°	48	46	46	46	46	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1592.8	1584.0	1587.0	1587.0	1579.6
5°	1594.3	1573.7	1573.7	1563.4	1559.0
7.5°	1572.2	1556.1	1553.1	1539.9	1535.5
10°	1556.1	1539.9	1529.6	1511.9	1504.6
12.5°	1537.0	1511.9	1492.8	1463.4	1451.6
15°	1506.1	1479.6	1453.1	1414.9	1400.2
17.5°	1478.1	1447.2	1407.5	1364.9	1348.7
20°	1441.4	1404.6	1353.1	1294.3	1279.6
22.5°	1398.7	1356.0	1295.7	1232.5	1220.7
25°	1357.5	1309.0	1238.4	1178.1	1163.4
27.5°	1314.9	1256.0	1175.1	1110.4	1095.7
30°	1256.0	1195.7	1116.3	1053.1	1042.8
32.5°	1201.6	1141.3	1054.5	1003.1	991.3
35°	1141.3	1078.1	992.8	944.2	933.9
37.5°	1086.9	1013.4	938.3	891.3	885.4
40°	1022.2	956.0	881.0	845.7	836.9
42.5°	958.9	892.8	822.2	791.3	781.0
45°	898.6	829.5	770.7	741.3	732.4
47.5°	835.4	772.2	716.3	692.7	686.8
50°	769.2	713.3	661.8	639.8	632.4
52.5°	710.4	653.0	610.4	589.8	581.0
55°	647.1	598.6	557.4	539.8	533.9
57.5°	583.9	544.2	504.5	488.3	479.5
60°	528.0	488.3	455.9	436.8	430.9
62.5°	470.6	436.8	405.9	388.3	380.9
65°	413.3	385.3	355.9	333.9	326.5
67.5°	360.3	329.5	305.9	286.8	279.4
70°	304.4	282.4	258.9	241.2	233.9
72.5°	253.0	236.8	216.2	197.1	189.7
75°	207.4	191.2	175.0	154.4	144.1
77.5°	161.8	151.5	135.3	117.7	117.7
80°	119.1	113.2	95.6	92.7	91.2
82.5°	82.4	79.4	69.1	67.7	67.7
85°	48.5	45.6	45.6	45.6	45.6
87.5°	20.6	22.1	23.5	23.5	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)