

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: P295739

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3544.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

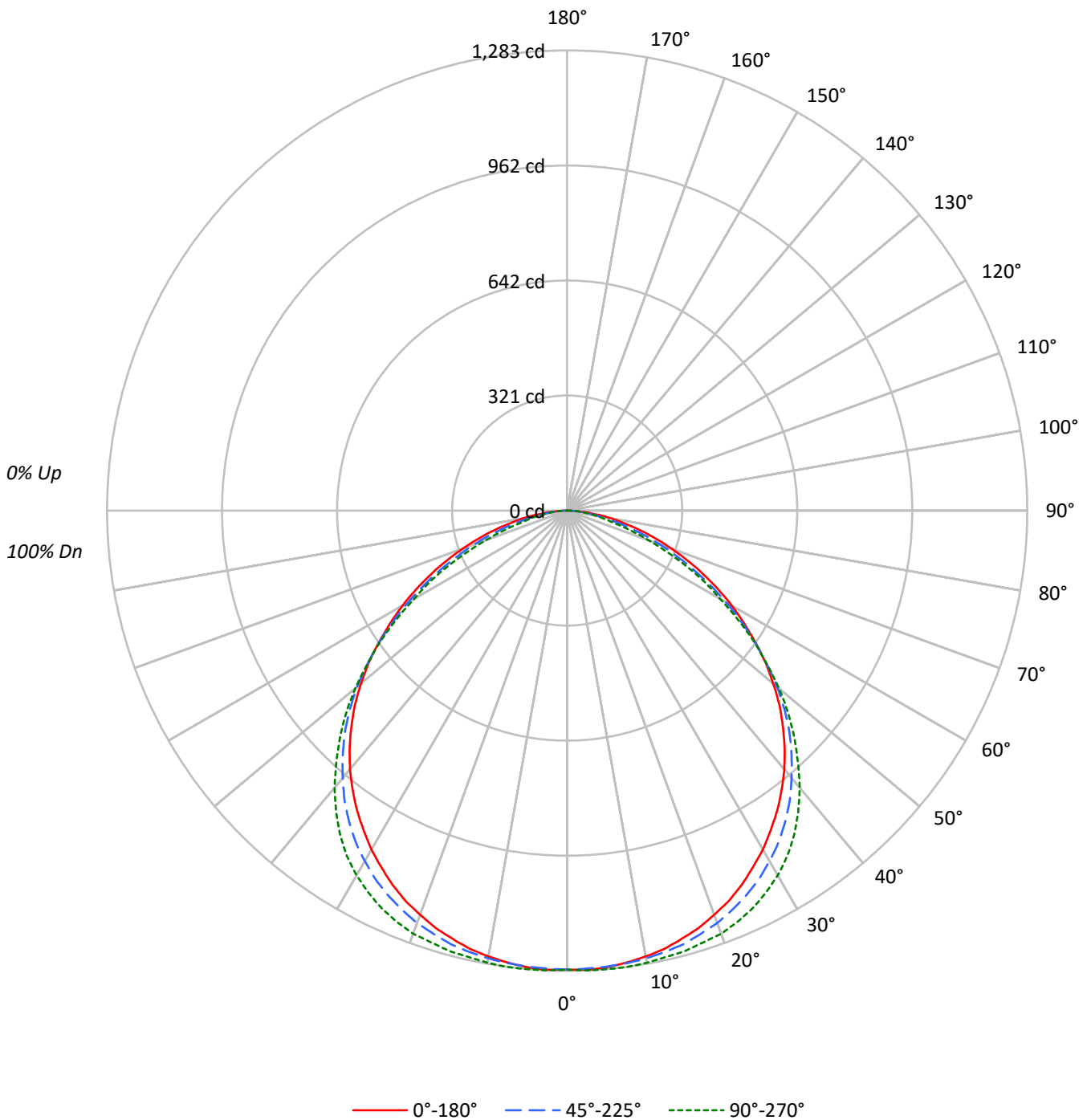
Input Watts (W): 40.362
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3444	3444	3444
5°	3452	3448	3467
10°	3449	3463	3497
15°	3443	3487	3541
20°	3433	3504	3594
25°	3419	3513	3633
30°	3392	3507	3649
35°	3354	3482	3626
40°	3309	3420	3544
45°	3236	3336	3410
50°	3140	3198	3228
55°	3006	2998	2981
60°	2852	2757	2653
65°	2656	2466	2332
70°	2424	2161	1884
75°	2178	1794	1410
80°	1937	1309	1227
85°	1522	1087	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.4
10°-20°	354.1	10.0
20°-30°	546.5	15.4
30°-40°	662.8	18.7
40°-50°	672.9	19.0
50°-60°	569.2	16.1
60°-70°	385.1	10.9
70°-80°	186.2	5.3
80°-90°	45.4	1.3
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°	1022.4	28.8
0°-40°	1685.1	47.5
0°-60°	2927.2	82.6
0°-90°	3544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1278	1278	1276	1282	1283	121
15°	1236	1243	1252	1266	1271	349
25°	1151	1160	1183	1213	1224	530
35°	1021	1032	1060	1093	1104	638
45°	850	852	877	894	896	656
55°	641	636	639	639	636	573
65°	417	400	387	372	366	414
75°	210	194	172	150	136	223
85°	49	39	35	35	35	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1281.6	1281.6	1278.1	1281.6	1283.4
5°	1278.1	1278.1	1276.3	1281.6	1283.4
7.5°	1271.1	1272.8	1272.8	1279.9	1283.4
10°	1262.3	1265.8	1267.5	1278.1	1279.9
12.5°	1251.7	1255.2	1260.5	1272.8	1274.6
15°	1235.9	1242.9	1251.7	1265.8	1271.1
17.5°	1220.0	1227.1	1237.6	1257.0	1262.3
20°	1198.9	1207.7	1223.5	1246.4	1255.2
22.5°	1177.8	1184.8	1204.2	1232.3	1241.1
25°	1151.4	1160.2	1183.0	1213.0	1223.5
27.5°	1121.4	1133.7	1158.4	1190.1	1200.6
30°	1091.5	1102.1	1128.5	1163.7	1174.2
32.5°	1056.3	1066.9	1096.8	1130.2	1142.6
35°	1021.1	1031.6	1059.8	1093.3	1103.8
37.5°	982.3	989.4	1019.3	1047.5	1058.0
40°	941.9	947.1	973.5	1001.7	1008.8
42.5°	897.8	901.4	926.0	950.7	952.4
45°	850.3	852.1	876.7	894.3	896.1
47.5°	802.8	801.0	822.1	834.5	836.2
50°	750.0	750.0	764.0	771.1	771.1
52.5°	697.1	693.6	700.7	706.0	700.7
55°	640.8	635.5	639.1	639.1	635.5
57.5°	584.5	573.9	575.7	572.2	563.4
60°	529.9	517.6	512.3	500.0	492.9
62.5°	473.6	459.5	448.9	434.8	433.1
65°	417.2	399.6	387.3	371.5	366.2
67.5°	362.7	346.8	329.2	311.6	301.0
70°	308.1	290.5	274.6	251.7	239.4
72.5°	258.8	242.9	223.6	197.2	188.4
75°	209.5	193.7	172.5	149.6	135.6
77.5°	162.0	149.6	126.8	107.4	105.6
80°	125.0	110.9	84.5	79.2	79.2
82.5°	81.0	72.2	59.9	56.3	56.3
85°	49.3	38.7	35.2	35.2	35.2
87.5°	19.4	17.6	17.6	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)