

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: P295738

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295738
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3496.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

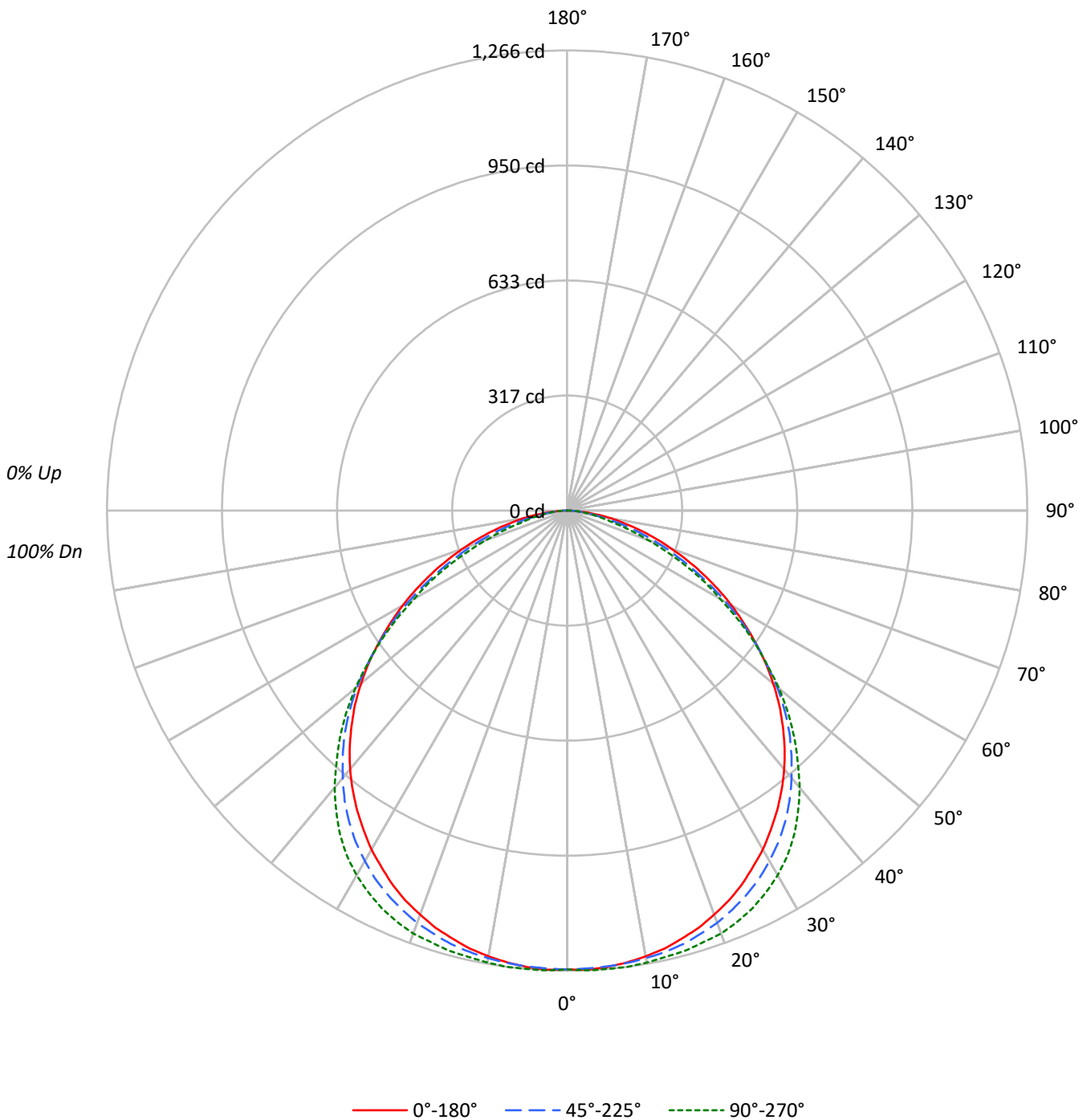
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3397	3397	3397
5°	3406	3401	3420
10°	3402	3417	3450
15°	3396	3440	3493
20°	3387	3456	3546
25°	3372	3465	3584
30°	3346	3459	3599
35°	3309	3435	3577
40°	3264	3374	3496
45°	3192	3291	3364
50°	3097	3155	3184
55°	2966	2958	2941
60°	2813	2720	2617
65°	2621	2433	2300
70°	2391	2131	1858
75°	2149	1770	1390
80°	1911	1292	1210
85°	1501	1071	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.4
10°-20°	349.3	10.0
20°-30°	539.1	15.4
30°-40°	653.8	18.7
40°-50°	663.8	19.0
50°-60°	561.5	16.1
60°-70°	379.9	10.9
70°-80°	183.7	5.3
80°-90°	44.8	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°	1008.5	28.8
0°-40°	1662.3	47.5
0°-60°	2887.6	82.6
0°-90°	3496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1261	1261	1259	1264	1266	120
15°	1219	1226	1235	1249	1254	344
25°	1136	1144	1167	1196	1207	523
35°	1007	1018	1046	1078	1089	630
45°	839	840	865	882	884	647
55°	632	627	630	630	627	565
65°	412	394	382	366	361	408
75°	207	191	170	148	134	220
85°	49	38	35	35	35	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1264.3	1264.3	1260.8	1264.3	1266.0
5°	1260.8	1260.8	1259.1	1264.3	1266.0
7.5°	1253.9	1255.6	1255.6	1262.5	1266.0
10°	1245.2	1248.6	1250.4	1260.8	1262.5
12.5°	1234.7	1238.2	1243.4	1255.6	1257.3
15°	1219.1	1226.1	1234.7	1248.6	1253.9
17.5°	1203.5	1210.4	1220.9	1240.0	1245.2
20°	1182.6	1191.3	1207.0	1229.5	1238.2
22.5°	1161.8	1168.8	1187.9	1215.6	1224.3
25°	1135.8	1144.4	1167.0	1196.5	1207.0
27.5°	1106.2	1118.4	1142.7	1174.0	1184.4
30°	1076.7	1087.1	1113.2	1147.9	1158.3
32.5°	1042.0	1052.4	1081.9	1114.9	1127.1
35°	1007.2	1017.7	1045.5	1078.5	1088.9
37.5°	969.0	976.0	1005.5	1033.3	1043.7
40°	929.1	934.3	960.4	988.1	995.1
42.5°	885.7	889.2	913.5	937.8	939.5
45°	838.8	840.5	864.8	882.2	883.9
47.5°	791.9	790.2	811.0	823.2	824.9
50°	739.8	739.8	753.7	760.6	760.6
52.5°	687.7	684.2	691.2	696.4	691.2
55°	632.1	626.9	630.4	630.4	626.9
57.5°	576.6	566.1	567.9	564.4	555.7
60°	522.7	510.6	505.4	493.2	486.3
62.5°	467.2	453.3	442.8	428.9	427.2
65°	411.6	394.2	382.1	366.4	361.2
67.5°	357.7	342.1	324.8	307.4	297.0
70°	303.9	286.5	270.9	248.3	236.2
72.5°	255.3	239.7	220.6	194.5	185.8
75°	206.7	191.0	170.2	147.6	133.7
77.5°	159.8	147.6	125.0	105.9	104.2
80°	123.3	109.4	83.4	78.1	78.1
82.5°	79.9	71.2	59.0	55.6	55.6
85°	48.6	38.2	34.7	34.7	34.7
87.5°	19.1	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)