

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: P295742

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295742
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-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3597.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

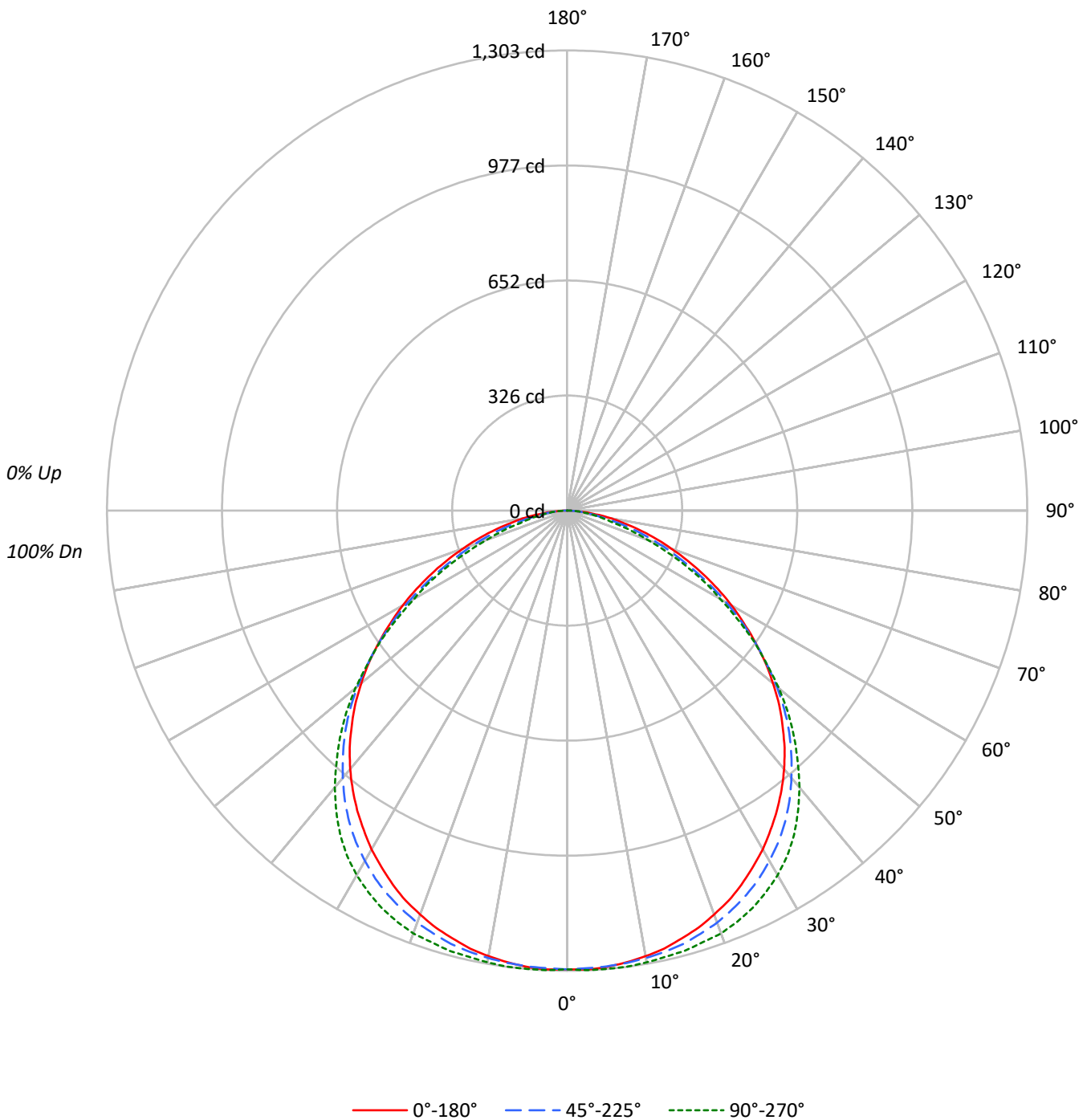
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3496	3496	3496
5°	3504	3499	3519
10°	3501	3515	3550
15°	3494	3539	3594
20°	3485	3556	3648
25°	3470	3565	3687
30°	3442	3559	3703
35°	3404	3534	3680
40°	3358	3471	3596
45°	3284	3386	3461
50°	3187	3247	3276
55°	3051	3043	3026
60°	2894	2799	2693
65°	2697	2503	2367
70°	2460	2193	1912
75°	2210	1821	1431
80°	1967	1330	1246
85°	1544	1102	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.4
10°-20°	359.4	10.0
20°-30°	554.6	15.4
30°-40°	672.7	18.7
40°-50°	682.9	19.0
50°-60°	577.7	16.1
60°-70°	390.9	10.9
70°-80°	189.0	5.3
80°-90°	46.1	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°	1037.6	28.8
0°-40°	1710.3	47.5
0°-60°	2971.0	82.6
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1297	1297	1295	1301	1303	123
15°	1254	1262	1270	1285	1290	354
25°	1169	1178	1201	1231	1242	538
35°	1036	1047	1076	1110	1120	648
45°	863	865	890	908	910	665
55°	650	645	649	649	645	581
65°	424	406	393	377	372	420
75°	213	196	175	152	138	227
85°	50	39	36	36	36	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.0	1299.0	1299.0	1299.0	1299.0
2.5°	1300.8	1300.8	1297.2	1300.8	1302.6
5°	1297.2	1297.2	1295.4	1300.8	1302.6
7.5°	1290.1	1291.9	1291.9	1299.0	1302.6
10°	1281.1	1284.7	1286.5	1297.2	1299.0
12.5°	1270.4	1274.0	1279.4	1291.9	1293.6
15°	1254.3	1261.5	1270.4	1284.7	1290.1
17.5°	1238.3	1245.4	1256.1	1275.8	1281.1
20°	1216.8	1225.7	1241.8	1265.1	1274.0
22.5°	1195.4	1202.5	1222.2	1250.8	1259.7
25°	1168.6	1177.5	1200.7	1231.1	1241.8
27.5°	1138.2	1150.7	1175.7	1207.9	1218.6
30°	1107.8	1118.5	1145.3	1181.1	1191.8
32.5°	1072.1	1082.8	1113.2	1147.1	1159.6
35°	1036.3	1047.1	1075.7	1109.6	1120.3
37.5°	997.0	1004.2	1034.6	1063.1	1073.9
40°	955.9	961.3	988.1	1016.7	1023.8
42.5°	911.3	914.8	939.9	964.9	966.7
45°	863.0	864.8	889.8	907.7	909.5
47.5°	814.8	813.0	834.4	846.9	848.7
50°	761.2	761.2	775.5	782.6	782.6
52.5°	707.6	704.0	711.1	716.5	711.1
55°	650.4	645.0	648.6	648.6	645.0
57.5°	593.2	582.5	584.3	580.7	571.8
60°	537.8	525.3	520.0	507.5	500.3
62.5°	480.7	466.4	455.6	441.3	439.6
65°	423.5	405.6	393.1	377.0	371.7
67.5°	368.1	352.0	334.1	316.3	305.5
70°	312.7	294.8	278.7	255.5	243.0
72.5°	262.7	246.6	226.9	200.1	191.2
75°	212.6	196.5	175.1	151.9	137.6
77.5°	164.4	151.9	128.7	109.0	107.2
80°	126.9	112.6	85.8	80.4	80.4
82.5°	82.2	73.3	60.8	57.2	57.2
85°	50.0	39.3	35.7	35.7	35.7
87.5°	19.7	17.9	17.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)