

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: P295665

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295665
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-LD5-40-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: 3306.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

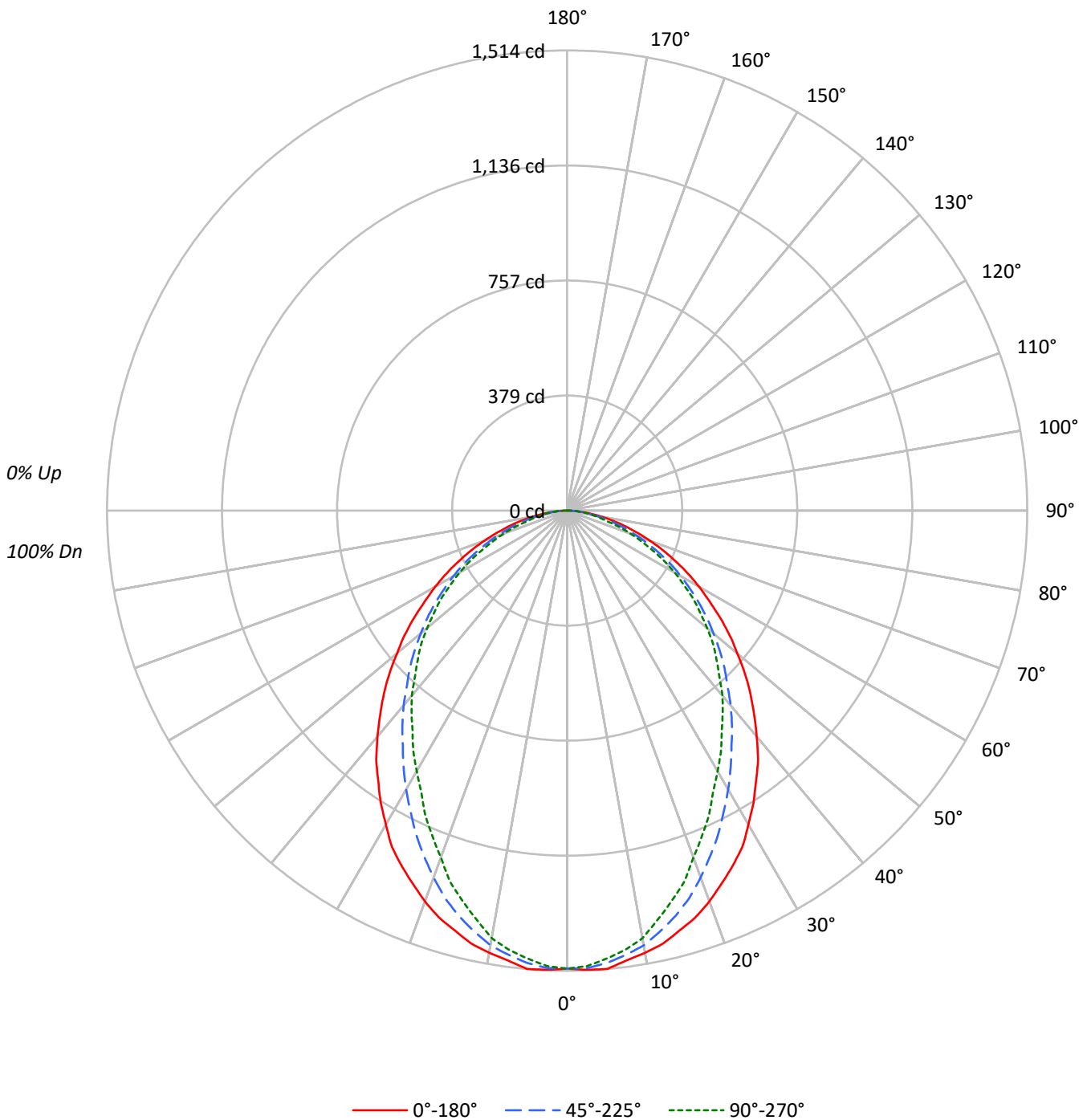
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4054	4054	4054
5°	4089	4036	3998
10°	4037	3968	3903
15°	3984	3844	3704
20°	3919	3679	3479
25°	3827	3491	3280
30°	3705	3293	3077
35°	3560	3097	2913
40°	3409	2938	2791
45°	3247	2785	2646
50°	3057	2631	2514
55°	2883	2483	2378
60°	2698	2330	2202
65°	2499	2152	1974
70°	2275	1934	1747
75°	2047	1728	1422
80°	1753	1407	1342
85°	1423	1337	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	4.3
10°-20°	387.2	11.7
20°-30°	543.4	16.4
30°-40°	602.8	18.2
40°-50°	578.6	17.5
50°-60°	485.0	14.7
60°-70°	340.4	10.3
70°-80°	177.8	5.4
80°-90°	49.7	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°	1071.7	32.4
0°-40°	1674.5	50.7
0°-60°	2738.1	82.8
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1514	1494	1494	1484	1480	143
15°	1430	1405	1380	1343	1329	403
25°	1289	1243	1176	1118	1105	593
35°	1084	1024	943	896	887	679
45°	853	788	732	704	695	657
55°	614	568	529	512	507	550
65°	392	366	338	317	310	390
75°	197	182	166	147	137	209
85°	46	43	43	43	43	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.7	1506.7	1506.7	1506.7	1506.7
2.5°	1512.3	1503.9	1506.7	1506.7	1499.8
5°	1513.7	1494.2	1494.2	1484.4	1480.2
7.5°	1492.8	1477.4	1474.6	1462.1	1457.9
10°	1477.4	1462.1	1452.3	1435.5	1428.5
12.5°	1459.3	1435.5	1417.4	1389.4	1378.3
15°	1429.9	1404.8	1379.7	1343.4	1329.4
17.5°	1403.4	1374.1	1336.4	1295.9	1280.5
20°	1368.5	1333.6	1284.7	1228.9	1214.9
22.5°	1328.0	1287.5	1230.3	1170.2	1159.0
25°	1288.9	1242.8	1175.8	1118.5	1104.6
27.5°	1248.4	1192.5	1115.7	1054.3	1040.3
30°	1192.5	1135.3	1059.9	999.8	990.1
32.5°	1140.9	1083.6	1001.2	952.4	941.2
35°	1083.6	1023.6	942.6	896.5	886.7
37.5°	1032.0	962.1	890.9	846.2	840.6
40°	970.5	907.7	836.5	802.9	794.6
42.5°	910.5	847.6	780.6	751.3	741.5
45°	853.2	787.6	731.7	703.8	695.4
47.5°	793.2	733.1	680.1	657.7	652.1
50°	730.3	677.3	628.4	607.4	600.5
52.5°	674.5	620.0	579.5	560.0	551.6
55°	614.4	568.3	529.2	512.5	506.9
57.5°	554.4	516.7	479.0	463.6	455.2
60°	501.3	463.6	432.9	414.7	409.2
62.5°	446.9	414.7	385.4	368.7	361.7
65°	392.4	365.9	337.9	317.0	310.0
67.5°	342.1	312.8	290.5	272.3	265.3
70°	289.1	268.1	245.8	229.0	222.0
72.5°	240.2	224.8	205.3	187.1	180.1
75°	196.9	181.5	166.2	146.6	136.8
77.5°	153.6	143.8	128.5	111.7	111.7
80°	113.1	107.5	90.8	88.0	86.6
82.5°	78.2	75.4	65.6	64.2	64.2
85°	46.1	43.3	43.3	43.3	43.3
87.5°	19.5	20.9	22.3	22.3	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)