

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: P295667

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295667
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-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3583.0 lumens
Efficiency: N/A
Efficacy: 89.8 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

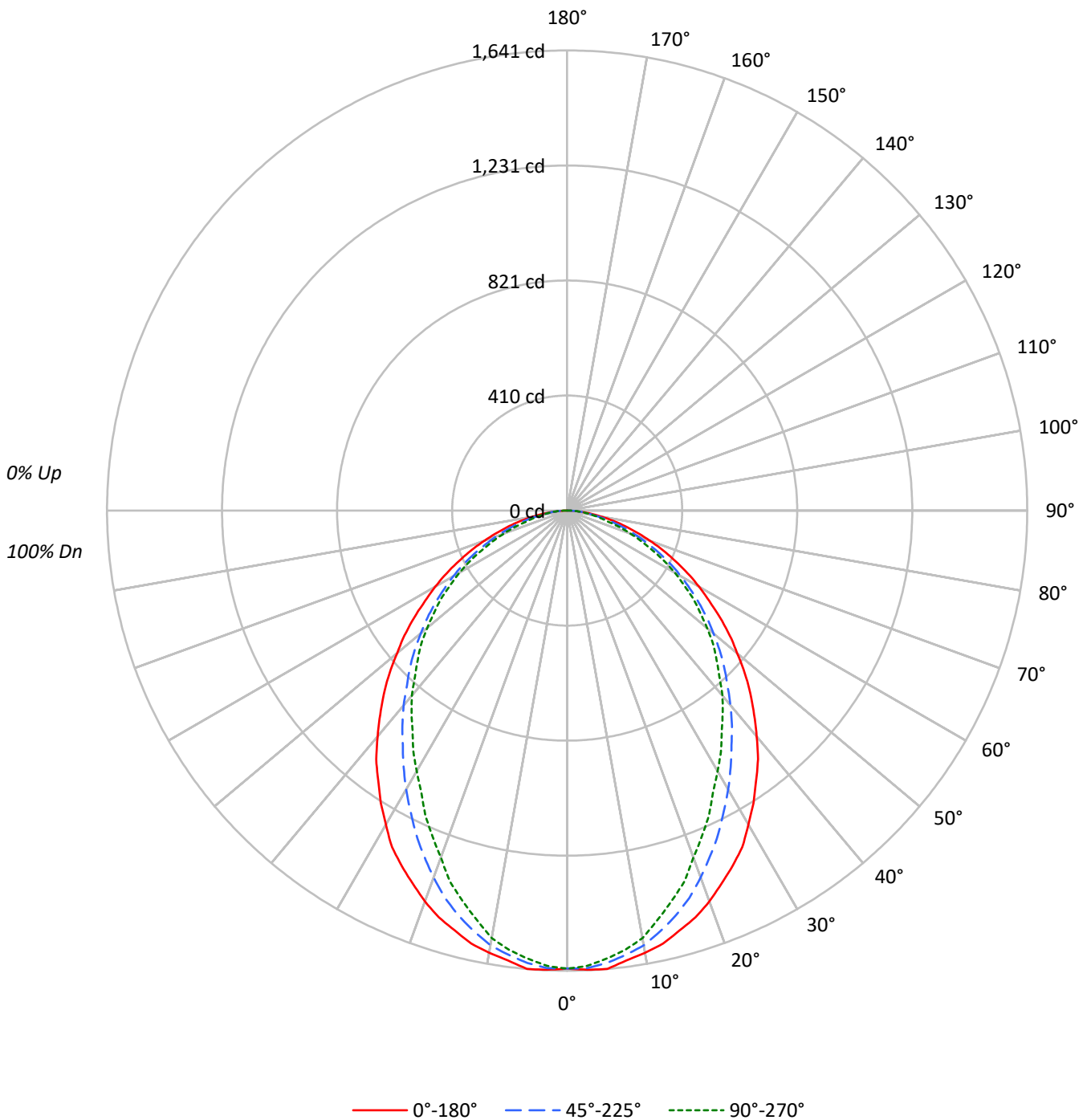
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4394	4394	4394
5°	4432	4374	4333
10°	4375	4301	4230
15°	4317	4166	4014
20°	4247	3987	3771
25°	4148	3784	3554
30°	4016	3569	3334
35°	3858	3356	3157
40°	3695	3184	3025
45°	3519	3018	2868
50°	3314	2851	2725
55°	3124	2691	2578
60°	2924	2525	2386
65°	2708	2332	2139
70°	2465	2096	1893
75°	2219	1873	1542
80°	1900	1525	1454
85°	1541	1448	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	4.3
10°-20°	419.7	11.7
20°-30°	589.0	16.4
30°-40°	653.3	18.2
40°-50°	627.1	17.5
50°-60°	525.6	14.7
60°-70°	368.9	10.3
70°-80°	192.7	5.4
80°-90°	53.9	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°	1161.5	32.4
0°-40°	1814.8	50.7
0°-60°	2967.5	82.8
0°-90°	3583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1641	1619	1619	1609	1604	155
15°	1550	1522	1495	1456	1441	437
25°	1397	1347	1274	1212	1197	643
35°	1174	1109	1022	972	961	735
45°	925	854	793	763	754	712
55°	666	616	574	555	549	596
65°	425	396	366	344	336	423
75°	213	197	180	159	148	226
85°	50	47	47	47	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.0	1633.0	1633.0	1633.0	1633.0
2.5°	1639.0	1630.0	1633.0	1633.0	1625.4
5°	1640.6	1619.4	1619.4	1608.8	1604.2
7.5°	1617.9	1601.2	1598.2	1584.6	1580.0
10°	1601.2	1584.6	1574.0	1555.8	1548.2
12.5°	1581.5	1555.8	1536.1	1505.9	1493.8
15°	1549.7	1522.5	1495.3	1455.9	1440.8
17.5°	1521.0	1489.2	1448.3	1404.5	1387.8
20°	1483.2	1445.3	1392.4	1331.8	1316.7
22.5°	1439.3	1395.4	1333.3	1268.3	1256.1
25°	1396.9	1347.0	1274.3	1212.3	1197.1
27.5°	1353.0	1292.5	1209.2	1142.6	1127.5
30°	1292.5	1230.4	1148.7	1083.6	1073.0
32.5°	1236.5	1174.4	1085.1	1032.2	1020.0
35°	1174.4	1109.3	1021.6	971.6	961.0
37.5°	1118.4	1042.8	965.6	917.1	911.1
40°	1051.8	983.7	906.5	870.2	861.1
42.5°	986.8	918.7	846.0	814.2	803.6
45°	924.7	853.6	793.0	762.8	753.7
47.5°	859.6	794.5	737.0	712.8	706.8
50°	791.5	734.0	681.0	658.3	650.8
52.5°	731.0	672.0	628.1	606.9	597.8
55°	665.9	616.0	573.6	555.4	549.4
57.5°	600.8	560.0	519.1	502.5	493.4
60°	543.3	502.5	469.2	449.5	443.4
62.5°	484.3	449.5	417.7	399.5	392.0
65°	425.3	396.5	366.2	343.5	336.0
67.5°	370.8	339.0	314.8	295.1	287.6
70°	313.3	290.6	266.4	248.2	240.6
72.5°	260.3	243.7	222.5	202.8	195.2
75°	213.4	196.7	180.1	158.9	148.3
77.5°	166.5	155.9	139.2	121.1	121.1
80°	122.6	116.5	98.4	95.3	93.8
82.5°	84.8	81.7	71.1	69.6	69.6
85°	49.9	46.9	46.9	46.9	46.9
87.5°	21.2	22.7	24.2	24.2	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)