

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: P295666

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295666
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-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

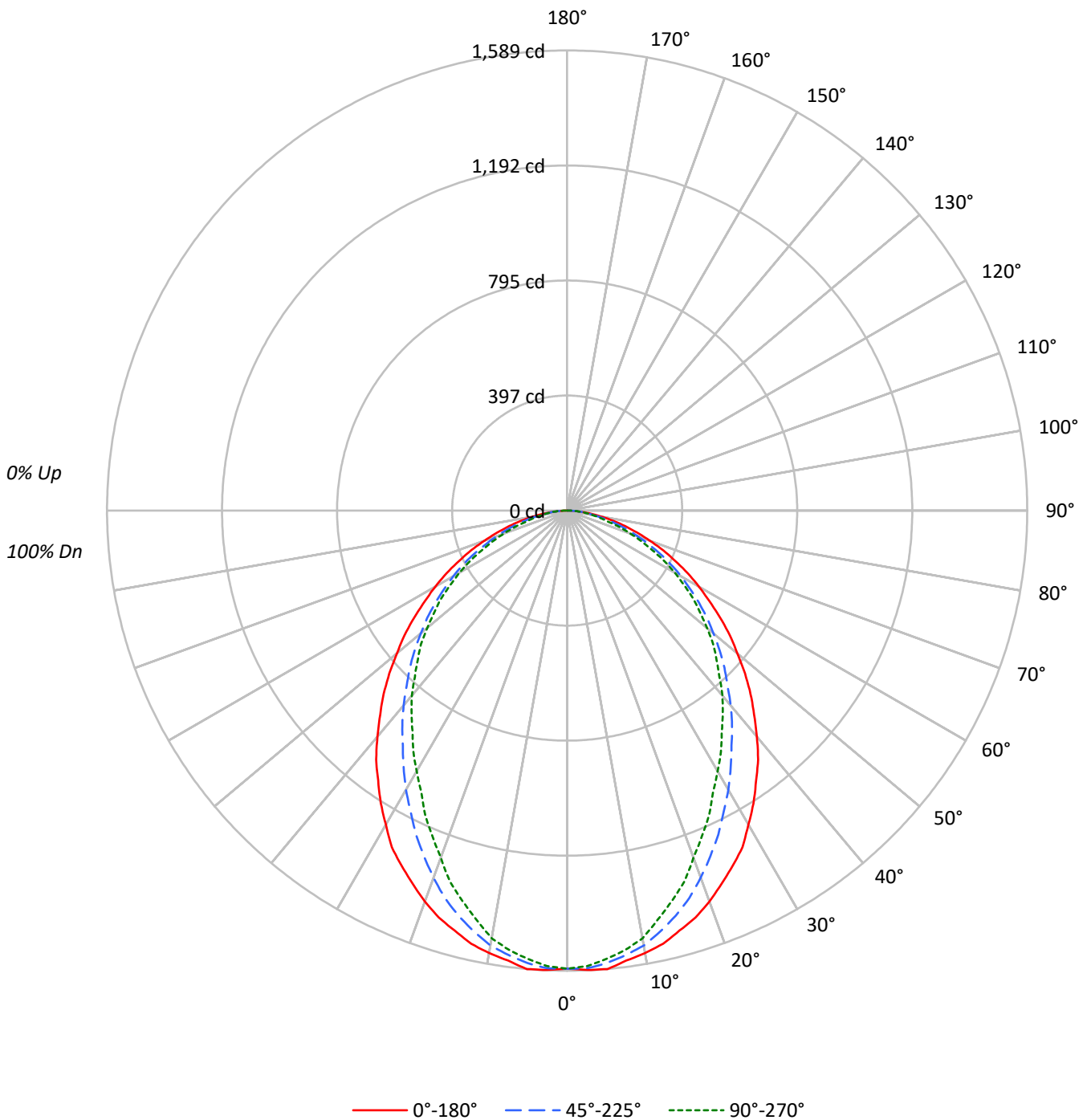
Input Watts (W): 39.525
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49					47				
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35					33				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4257	4257	4257
5°	4293	4237	4198
10°	4239	4167	4098
15°	4182	4035	3888
20°	4115	3863	3653
25°	4018	3665	3443
30°	3891	3458	3230
35°	3737	3251	3058
40°	3580	3085	2930
45°	3409	2923	2778
50°	3210	2762	2639
55°	3027	2607	2497
60°	2833	2446	2312
65°	2623	2259	2073
70°	2388	2030	1834
75°	2149	1814	1494
80°	1841	1477	1409
85°	1494	1402	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	4.3
10°-20°	406.5	11.7
20°-30°	570.6	16.4
30°-40°	632.8	18.2
40°-50°	607.5	17.5
50°-60°	509.2	14.7
60°-70°	357.4	10.3
70°-80°	186.6	5.4
80°-90°	52.2	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°	1125.2	32.4
0°-40°	1758.1	50.6
0°-60°	2874.8	82.8
0°-90°	3471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1589	1569	1569	1558	1554	150
15°	1501	1475	1448	1410	1396	424
25°	1353	1305	1234	1174	1160	623
35°	1138	1075	990	941	931	712
45°	896	827	768	739	730	690
55°	645	597	556	538	532	577
65°	412	384	355	333	326	409
75°	207	191	174	154	144	219
85°	48	45	45	45	45	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.9	1581.9	1581.9	1581.9	1581.9
2.5°	1587.8	1579.0	1581.9	1581.9	1574.6
5°	1589.3	1568.7	1568.7	1558.5	1554.1
7.5°	1567.3	1551.2	1548.2	1535.0	1530.6
10°	1551.2	1535.0	1524.8	1507.2	1499.8
12.5°	1532.1	1507.2	1488.1	1458.8	1447.1
15°	1501.3	1474.9	1448.5	1410.4	1395.7
17.5°	1473.5	1442.7	1403.1	1360.6	1344.4
20°	1436.8	1400.1	1348.8	1290.2	1275.5
22.5°	1394.3	1351.8	1291.7	1228.6	1216.9
25°	1353.2	1304.8	1234.5	1174.4	1159.7
27.5°	1310.7	1252.1	1171.4	1106.9	1092.3
30°	1252.1	1192.0	1112.8	1049.7	1039.5
32.5°	1197.8	1137.7	1051.2	999.9	988.2
35°	1137.7	1074.7	989.6	941.2	931.0
37.5°	1083.5	1010.2	935.4	888.5	882.6
40°	1019.0	953.0	878.2	843.0	834.2
42.5°	955.9	889.9	819.6	788.8	778.5
45°	895.8	826.9	768.2	738.9	730.1
47.5°	832.8	769.7	714.0	690.5	684.7
50°	766.8	711.1	659.8	637.8	630.4
52.5°	708.1	651.0	608.4	587.9	579.1
55°	645.1	596.7	555.7	538.1	532.2
57.5°	582.0	542.5	502.9	486.8	478.0
60°	526.3	486.8	454.5	435.4	429.6
62.5°	469.2	435.4	404.6	387.1	379.7
65°	412.0	384.1	354.8	332.8	325.5
67.5°	359.2	328.4	305.0	285.9	278.6
70°	303.5	281.5	258.0	240.4	233.1
72.5°	252.2	236.0	215.5	196.5	189.1
75°	206.7	190.6	174.5	153.9	143.7
77.5°	161.3	151.0	134.9	117.3	117.3
80°	118.8	112.9	95.3	92.4	90.9
82.5°	82.1	79.2	68.9	67.4	67.4
85°	48.4	45.4	45.4	45.4	45.4
87.5°	20.5	22.0	23.5	23.5	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)