

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: P295661

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295661
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-LD5-35-UNV-L92765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3346.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

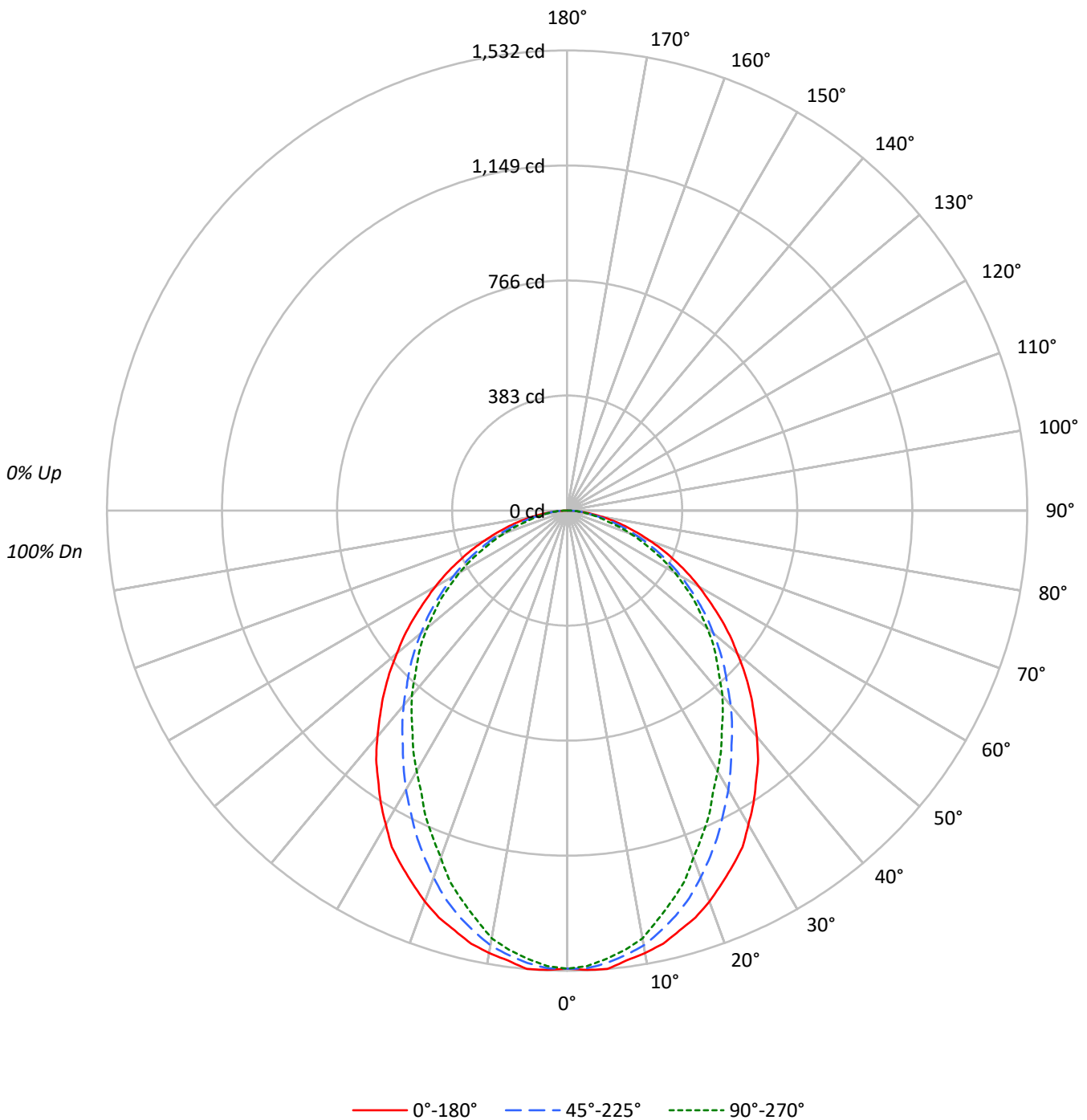
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4104	4104	4104
5°	4138	4085	4047
10°	4086	4016	3951
15°	4032	3890	3748
20°	3966	3724	3521
25°	3873	3533	3319
30°	3750	3333	3113
35°	3603	3134	2948
40°	3451	2974	2825
45°	3286	2818	2678
50°	3095	2663	2544
55°	2918	2513	2407
60°	2731	2358	2229
65°	2528	2178	1998
70°	2302	1957	1768
75°	2072	1749	1440
80°	1774	1424	1358
85°	1439	1352	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	4.3
10°-20°	391.9	11.7
20°-30°	550.0	16.4
30°-40°	610.1	18.2
40°-50°	585.6	17.5
50°-60°	490.8	14.7
60°-70°	344.5	10.3
70°-80°	179.9	5.4
80°-90°	50.3	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°	1084.7	32.4
0°-40°	1694.8	50.7
0°-60°	2771.2	82.8
0°-90°	3346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1532	1512	1512	1502	1498	145
15°	1447	1422	1396	1360	1346	408
25°	1304	1258	1190	1132	1118	600
35°	1097	1036	954	907	898	687
45°	864	797	741	712	704	665
55°	622	575	536	519	513	556
65°	397	370	342	321	314	395
75°	199	184	168	148	138	211
85°	47	44	44	44	44	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.0	1525.0	1525.0	1525.0	1525.0
2.5°	1530.6	1522.1	1525.0	1525.0	1517.9
5°	1532.0	1512.3	1512.3	1502.4	1498.1
7.5°	1510.8	1495.3	1492.5	1479.7	1475.5
10°	1495.3	1479.7	1469.9	1452.9	1445.8
12.5°	1476.9	1452.9	1434.5	1406.3	1394.9
15°	1447.2	1421.8	1396.4	1359.6	1345.5
17.5°	1420.4	1390.7	1352.5	1311.6	1296.0
20°	1385.1	1349.7	1300.3	1243.7	1229.6
22.5°	1344.1	1303.1	1245.1	1184.4	1173.1
25°	1304.5	1257.9	1190.0	1132.1	1117.9
27.5°	1263.5	1207.0	1129.2	1067.1	1052.9
30°	1207.0	1149.0	1072.7	1011.9	1002.0
32.5°	1154.7	1096.7	1013.4	963.9	952.6
35°	1096.7	1036.0	954.0	907.4	897.5
37.5°	1044.4	973.8	901.7	856.5	850.8
40°	982.3	918.7	846.6	812.7	804.2
42.5°	921.5	857.9	790.0	760.4	750.5
45°	863.5	797.1	740.6	712.3	703.8
47.5°	802.8	742.0	688.3	665.7	660.0
50°	739.2	685.5	636.0	614.8	607.7
52.5°	682.6	627.5	586.5	566.7	558.3
55°	621.9	575.2	535.6	518.7	513.0
57.5°	561.1	522.9	484.8	469.2	460.7
60°	507.4	469.2	438.1	419.8	414.1
62.5°	452.3	419.8	390.1	373.1	366.1
65°	397.1	370.3	342.0	320.8	313.8
67.5°	346.3	316.6	294.0	275.6	268.5
70°	292.6	271.4	248.7	231.8	224.7
72.5°	243.1	227.5	207.8	189.4	182.3
75°	199.3	183.7	168.2	148.4	138.5
77.5°	155.5	145.6	130.0	113.1	113.1
80°	114.5	108.8	91.9	89.0	87.6
82.5°	79.1	76.3	66.4	65.0	65.0
85°	46.6	43.8	43.8	43.8	43.8
87.5°	19.8	21.2	22.6	22.6	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)