

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: P295593

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295593
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-L82765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

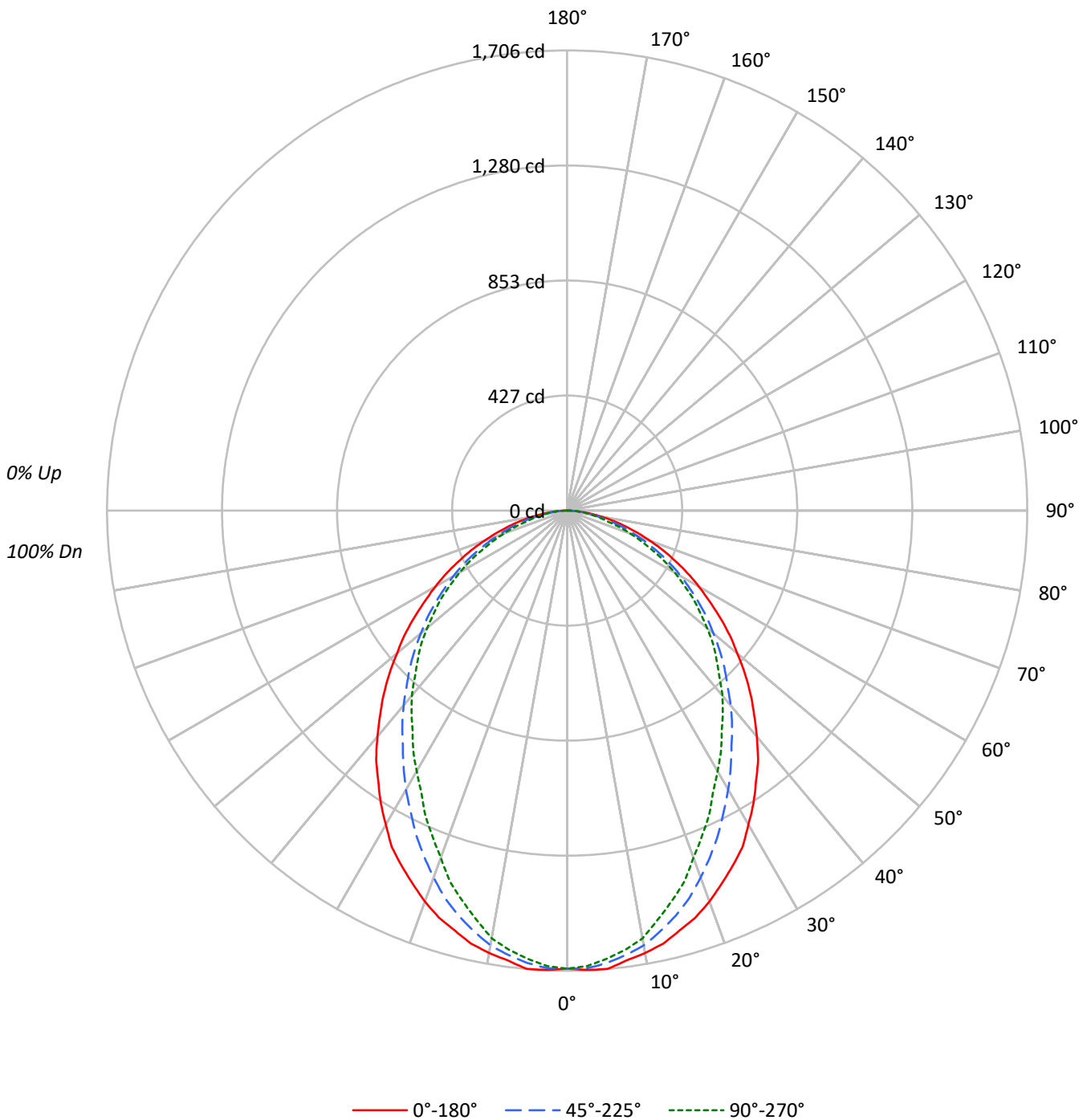
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4570	4570	4570
5°	4608	4549	4507
10°	4550	4473	4399
15°	4490	4332	4174
20°	4417	4146	3921
25°	4313	3935	3696
30°	4176	3712	3467
35°	4012	3490	3283
40°	3842	3312	3146
45°	3659	3138	2983
50°	3446	2965	2833
55°	3249	2799	2680
60°	3041	2626	2482
65°	2816	2425	2225
70°	2563	2179	1969
75°	2307	1947	1603
80°	1976	1585	1512
85°	1602	1507	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	4.3
10°-20°	436.4	11.7
20°-30°	612.5	16.4
30°-40°	679.3	18.2
40°-50°	652.2	17.5
50°-60°	546.6	14.7
60°-70°	383.7	10.3
70°-80°	200.4	5.4
80°-90°	56.1	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°	1207.9	32.4
0°-40°	1887.2	50.6
0°-60°	3085.9	82.8
0°-90°	3726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1706	1684	1684	1673	1668	161
15°	1612	1583	1555	1514	1498	455
25°	1453	1401	1325	1261	1245	669
35°	1221	1154	1062	1010	999	765
45°	962	888	825	793	784	741
55°	692	640	596	578	571	619
65°	442	412	381	357	349	439
75°	222	205	187	165	154	235
85°	52	49	49	49	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.2	1698.2	1698.2	1698.2	1698.2
2.5°	1704.5	1695.0	1698.2	1698.2	1690.3
5°	1706.0	1684.0	1684.0	1673.0	1668.3
7.5°	1682.4	1665.1	1662.0	1647.8	1643.1
10°	1665.1	1647.8	1636.8	1617.9	1610.0
12.5°	1644.7	1617.9	1597.4	1566.0	1553.4
15°	1611.6	1583.3	1554.9	1514.0	1498.3
17.5°	1581.7	1548.6	1506.2	1460.5	1443.2
20°	1542.4	1503.0	1447.9	1385.0	1369.2
22.5°	1496.7	1451.1	1386.5	1318.9	1306.3
25°	1452.6	1400.7	1325.2	1260.6	1244.9
27.5°	1407.0	1344.1	1257.5	1188.2	1172.5
30°	1344.1	1279.5	1194.5	1126.9	1115.8
32.5°	1285.8	1221.3	1128.4	1073.4	1060.8
35°	1221.3	1153.6	1062.3	1010.4	999.4
37.5°	1163.1	1084.4	1004.1	953.7	947.4
40°	1093.8	1023.0	942.7	905.0	895.5
42.5°	1026.1	955.3	879.8	846.7	835.7
45°	961.6	887.6	824.7	793.2	783.8
47.5°	893.9	826.3	766.5	741.3	735.0
50°	823.1	763.3	708.2	684.6	676.7
52.5°	760.2	698.8	653.1	631.1	621.7
55°	692.5	640.5	596.5	577.6	571.3
57.5°	624.8	582.3	539.8	522.5	513.1
60°	565.0	522.5	487.9	467.4	461.1
62.5°	503.6	467.4	434.4	415.5	407.6
65°	442.2	412.3	380.9	357.3	349.4
67.5°	385.6	352.5	327.4	306.9	299.0
70°	325.8	302.2	277.0	258.1	250.2
72.5°	270.7	253.4	231.4	210.9	203.0
75°	221.9	204.6	187.3	165.3	154.2
77.5°	173.1	162.1	144.8	125.9	125.9
80°	127.5	121.2	102.3	99.2	97.6
82.5°	88.1	85.0	74.0	72.4	72.4
85°	51.9	48.8	48.8	48.8	48.8
87.5°	22.0	23.6	25.2	25.2	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)