

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: P295548

Luminaire Tested: **14RLN-LD5-35-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295548
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-L83050-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

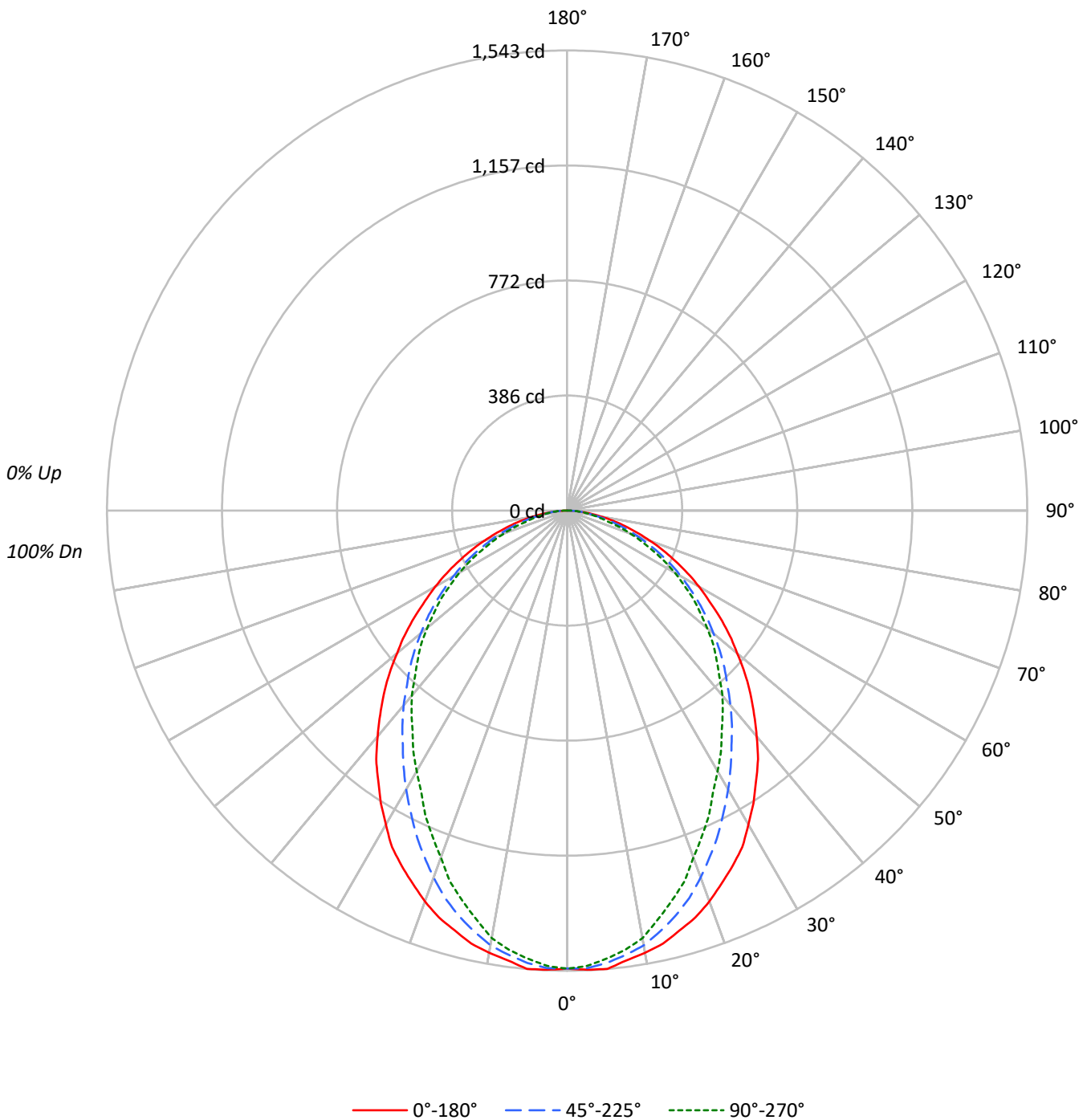
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4132	4132	4132
5°	4167	4113	4075
10°	4114	4044	3978
15°	4060	3917	3774
20°	3994	3749	3545
25°	3900	3558	3342
30°	3776	3356	3135
35°	3628	3155	2968
40°	3474	2994	2844
45°	3309	2838	2697
50°	3116	2681	2562
55°	2937	2530	2424
60°	2750	2374	2244
65°	2546	2193	2011
70°	2318	1971	1781
75°	2086	1760	1450
80°	1787	1433	1367
85°	1451	1362	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.3
10°-20°	394.6	11.7
20°-30°	553.8	16.4
30°-40°	614.2	18.2
40°-50°	589.7	17.5
50°-60°	494.2	14.7
60°-70°	346.9	10.3
70°-80°	181.2	5.4
80°-90°	50.7	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°	1092.2	32.4
0°-40°	1706.4	50.6
0°-60°	2790.3	82.8
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1543	1523	1523	1513	1508	146
15°	1457	1432	1406	1369	1355	411
25°	1314	1266	1198	1140	1126	604
35°	1104	1043	960	914	904	692
45°	870	803	746	717	709	670
55°	626	579	539	522	517	560
65°	400	373	344	323	316	397
75°	201	185	169	149	140	213
85°	47	44	44	44	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.5	1535.5	1535.5	1535.5	1535.5
2.5°	1541.1	1532.6	1535.5	1535.5	1528.3
5°	1542.6	1522.6	1522.6	1512.7	1508.4
7.5°	1521.2	1505.6	1502.7	1489.9	1485.6
10°	1505.6	1489.9	1480.0	1462.9	1455.8
12.5°	1487.1	1462.9	1444.4	1415.9	1404.5
15°	1457.2	1431.6	1406.0	1369.0	1354.7
17.5°	1430.2	1400.3	1361.8	1320.6	1304.9
20°	1394.6	1359.0	1309.2	1252.3	1238.0
22.5°	1353.3	1312.0	1253.7	1192.5	1181.1
25°	1313.5	1266.5	1198.2	1139.9	1125.6
27.5°	1272.2	1215.3	1137.0	1074.4	1060.2
30°	1215.3	1156.9	1080.1	1018.9	1008.9
32.5°	1162.6	1104.3	1020.3	970.5	959.1
35°	1104.3	1043.1	960.5	913.6	903.6
37.5°	1051.6	980.5	907.9	862.4	856.7
40°	989.0	925.0	852.4	818.2	809.7
42.5°	927.8	863.8	795.5	765.6	755.6
45°	869.5	802.6	745.7	717.2	708.7
47.5°	808.3	747.1	693.0	670.2	664.6
50°	744.2	690.2	640.4	619.0	611.9
52.5°	687.3	631.8	590.6	570.6	562.1
55°	626.1	579.2	539.3	522.3	516.6
57.5°	564.9	526.5	488.1	472.4	463.9
60°	510.9	472.4	441.1	422.6	416.9
62.5°	455.4	422.6	392.8	375.7	368.6
65°	399.9	372.8	344.4	323.0	315.9
67.5°	348.6	318.8	296.0	277.5	270.4
70°	294.6	273.2	250.5	233.4	226.3
72.5°	244.8	229.1	209.2	190.7	183.6
75°	200.6	185.0	169.3	149.4	139.5
77.5°	156.5	146.6	130.9	113.8	113.8
80°	115.3	109.6	92.5	89.7	88.2
82.5°	79.7	76.8	66.9	65.5	65.5
85°	47.0	44.1	44.1	44.1	44.1
87.5°	19.9	21.3	22.8	22.8	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)