

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: P295586

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295586
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-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: 3366.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

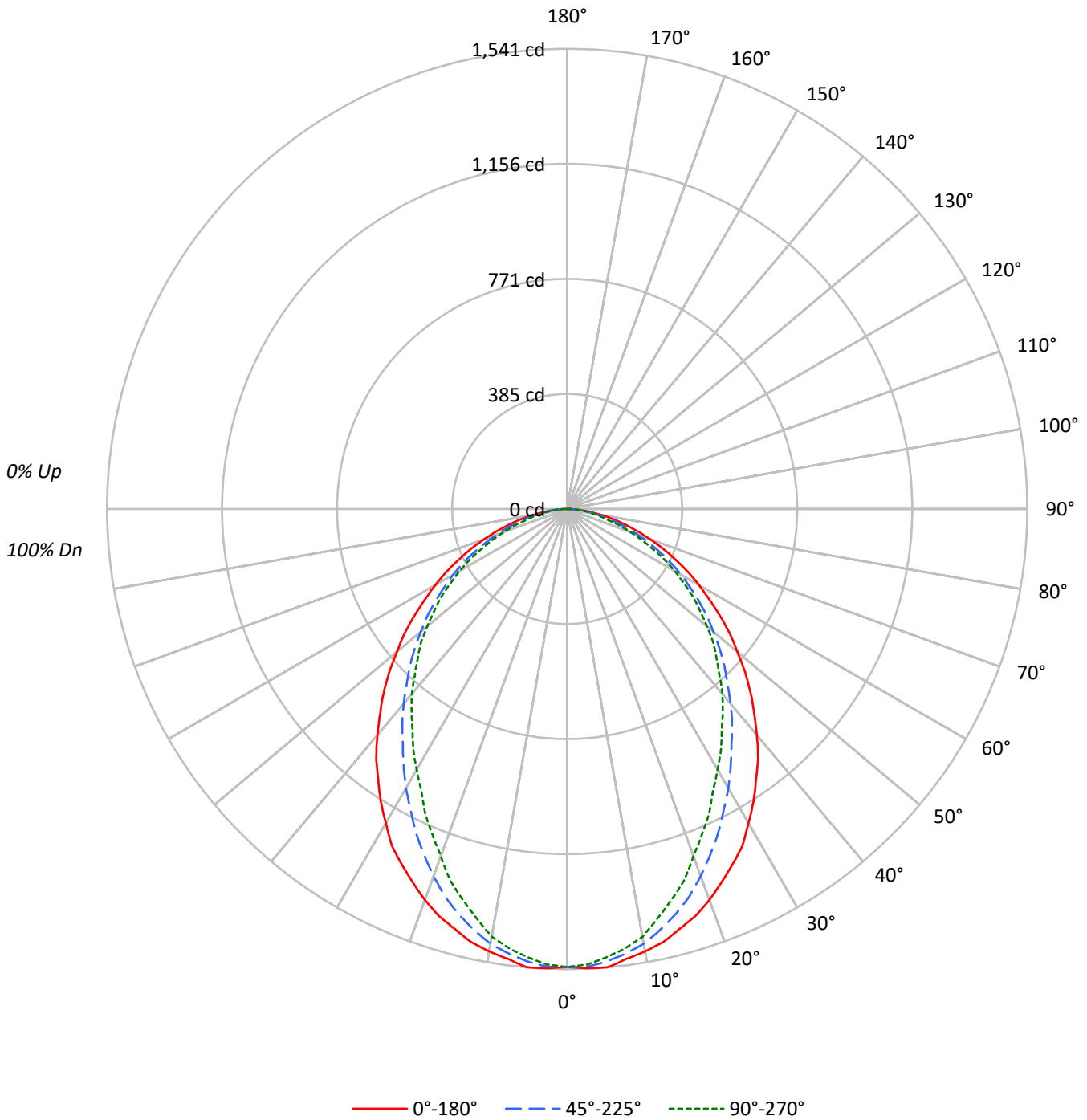
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4128	4128	4128
5°	4163	4109	4071
10°	4110	4040	3974
15°	4056	3913	3771
20°	3990	3746	3542
25°	3896	3554	3339
30°	3773	3353	3132
35°	3624	3153	2966
40°	3471	2992	2842
45°	3306	2835	2694
50°	3113	2678	2560
55°	2935	2528	2421
60°	2747	2372	2242
65°	2544	2191	2010
70°	2316	1969	1779
75°	2085	1759	1448
80°	1785	1432	1365
85°	1448	1362	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	4.3
10°-20°	394.2	11.7
20°-30°	553.3	16.4
30°-40°	613.7	18.2
40°-50°	589.1	17.5
50°-60°	493.8	14.7
60°-70°	346.6	10.3
70°-80°	181.0	5.4
80°-90°	50.6	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°	1091.2	32.4
0°-40°	1704.9	50.6
0°-60°	2787.8	82.8
0°-90°	3366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1541	1521	1521	1511	1507	146
15°	1456	1430	1405	1368	1354	411
25°	1312	1265	1197	1139	1125	604
35°	1103	1042	960	913	903	691
45°	869	802	745	717	708	669
55°	626	579	539	522	516	560
65°	400	372	344	323	316	397
75°	200	185	169	149	139	213
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°	1534.1	1534.1	1534.1	1534.1	1534.1
2.5°	1539.8	1531.2	1534.1	1534.1	1527.0
5°	1541.2	1521.3	1521.3	1511.3	1507.1
7.5°	1519.9	1504.2	1501.4	1488.6	1484.3
10°	1504.2	1488.6	1478.6	1461.6	1454.5
12.5°	1485.7	1461.6	1443.1	1414.7	1403.3
15°	1455.9	1430.3	1404.7	1367.7	1353.5
17.5°	1428.9	1399.0	1360.6	1319.4	1303.8
20°	1393.3	1357.8	1308.0	1251.2	1236.9
22.5°	1352.1	1310.9	1252.6	1191.4	1180.1
25°	1312.3	1265.4	1197.1	1138.8	1124.6
27.5°	1271.1	1214.2	1136.0	1073.4	1059.2
30°	1214.2	1155.9	1079.1	1018.0	1008.0
32.5°	1161.6	1103.3	1019.4	969.6	958.3
35°	1103.3	1042.2	959.7	912.8	902.8
37.5°	1050.7	979.6	907.1	861.6	855.9
40°	988.1	924.1	851.6	817.5	809.0
42.5°	927.0	863.0	794.8	764.9	755.0
45°	868.7	801.9	745.0	716.6	708.0
47.5°	807.6	746.4	692.4	669.7	664.0
50°	743.6	689.6	639.8	618.5	611.4
52.5°	686.7	631.3	590.0	570.1	561.6
55°	625.6	578.7	538.9	521.8	516.1
57.5°	564.4	526.1	487.7	472.0	463.5
60°	510.4	472.0	440.7	422.3	416.6
62.5°	455.0	422.3	392.4	375.3	368.2
65°	399.5	372.5	344.1	322.7	315.6
67.5°	348.3	318.5	295.7	277.2	270.1
70°	294.3	273.0	250.2	233.2	226.1
72.5°	244.5	228.9	209.0	190.5	183.4
75°	200.5	184.8	169.2	149.3	139.3
77.5°	156.4	146.4	130.8	113.7	113.7
80°	115.2	109.5	92.4	89.6	88.1
82.5°	79.6	76.8	66.8	65.4	65.4
85°	46.9	44.1	44.1	44.1	44.1
87.5°	19.9	21.3	22.7	22.7	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)