

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: P295619

Luminaire Tested: **14RLN-LD5-35-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295619
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-L93050-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: 3030.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

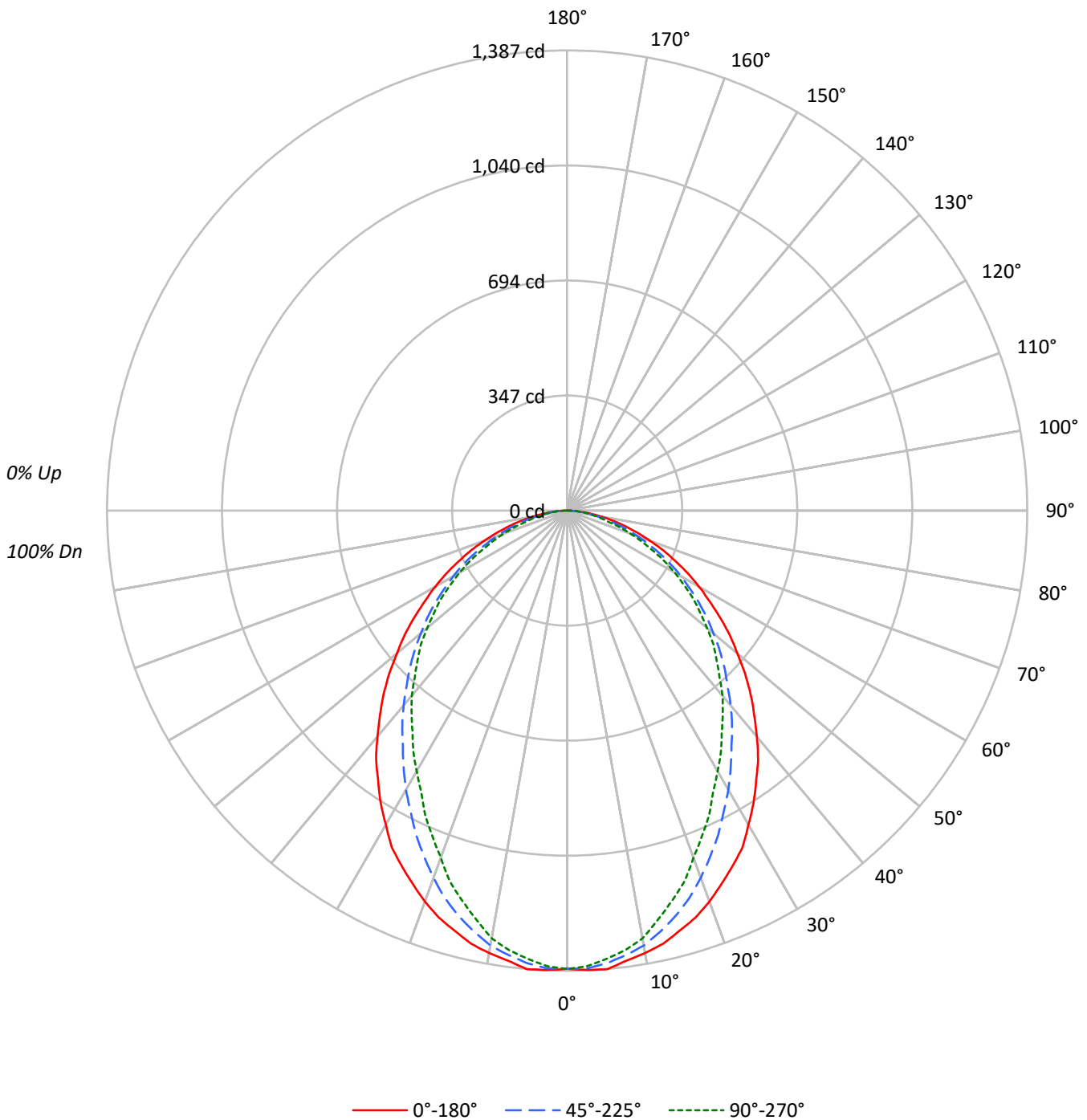
Input Watts (W): 34.224
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3716	3716	3716
5°	3748	3699	3665
10°	3700	3637	3578
15°	3651	3523	3394
20°	3592	3372	3189
25°	3507	3200	3006
30°	3396	3018	2820
35°	3263	2838	2670
40°	3125	2693	2558
45°	2976	2552	2426
50°	2802	2411	2304
55°	2642	2276	2180
60°	2473	2136	2018
65°	2290	1972	1809
70°	2084	1773	1601
75°	1877	1583	1304
80°	1607	1289	1230
85°	1303	1226	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	4.3
10°-20°	354.9	11.7
20°-30°	498.1	16.4
30°-40°	552.4	18.2
40°-50°	530.3	17.5
50°-60°	444.5	14.7
60°-70°	312.0	10.3
70°-80°	162.9	5.4
80°-90°	45.6	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°	982.3	32.4
0°-40°	1534.7	50.6
0°-60°	2509.5	82.8
0°-90°	3030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1387	1369	1369	1360	1357	131
15°	1311	1288	1264	1231	1218	370
25°	1181	1139	1078	1025	1012	544
35°	993	938	864	822	813	622
45°	782	722	671	645	637	602
55°	563	521	485	470	465	504
65°	360	335	310	290	284	357
75°	180	166	152	134	125	191
85°	42	40	40	40	40	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.0	1381.0	1381.0	1381.0	1381.0
2.5°	1386.1	1378.4	1381.0	1381.0	1374.6
5°	1387.4	1369.4	1369.4	1360.5	1356.6
7.5°	1368.2	1354.1	1351.5	1340.0	1336.2
10°	1354.1	1340.0	1331.0	1315.7	1309.3
12.5°	1337.4	1315.7	1299.0	1273.4	1263.2
15°	1310.6	1287.5	1264.5	1231.2	1218.4
17.5°	1286.2	1259.4	1224.8	1187.7	1173.6
20°	1254.2	1222.3	1177.5	1126.3	1113.5
22.5°	1217.1	1180.0	1127.5	1072.5	1062.3
25°	1181.3	1139.1	1077.6	1025.2	1012.4
27.5°	1144.2	1093.0	1022.6	966.3	953.5
30°	1093.0	1040.5	971.4	916.4	907.4
32.5°	1045.6	993.2	917.6	872.9	862.6
35°	993.2	938.1	863.9	821.7	812.7
37.5°	945.8	881.8	816.5	775.6	770.5
40°	889.5	831.9	766.6	735.9	728.2
42.5°	834.5	776.9	715.4	688.6	679.6
45°	782.0	721.8	670.6	645.0	637.4
47.5°	727.0	671.9	623.3	602.8	597.7
50°	669.4	620.7	575.9	556.7	550.3
52.5°	618.2	568.3	531.1	513.2	505.5
55°	563.1	520.9	485.1	469.7	464.6
57.5°	508.1	473.5	439.0	424.9	417.2
60°	459.5	424.9	396.8	380.1	375.0
62.5°	409.6	380.1	353.2	337.9	331.5
65°	359.6	335.3	309.7	290.5	284.1
67.5°	313.6	286.7	266.2	249.6	243.2
70°	264.9	245.7	225.3	209.9	203.5
72.5°	220.1	206.1	188.1	171.5	165.1
75°	180.5	166.4	152.3	134.4	125.4
77.5°	140.8	131.8	117.7	102.4	102.4
80°	103.7	98.5	83.2	80.6	79.4
82.5°	71.7	69.1	60.2	58.9	58.9
85°	42.2	39.7	39.7	39.7	39.7
87.5°	17.9	19.2	20.5	20.5	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)