

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: P295540

Luminaire Tested: **14RLN-LD5-26-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295540
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-LD5-26-UNV-L83050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2806.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

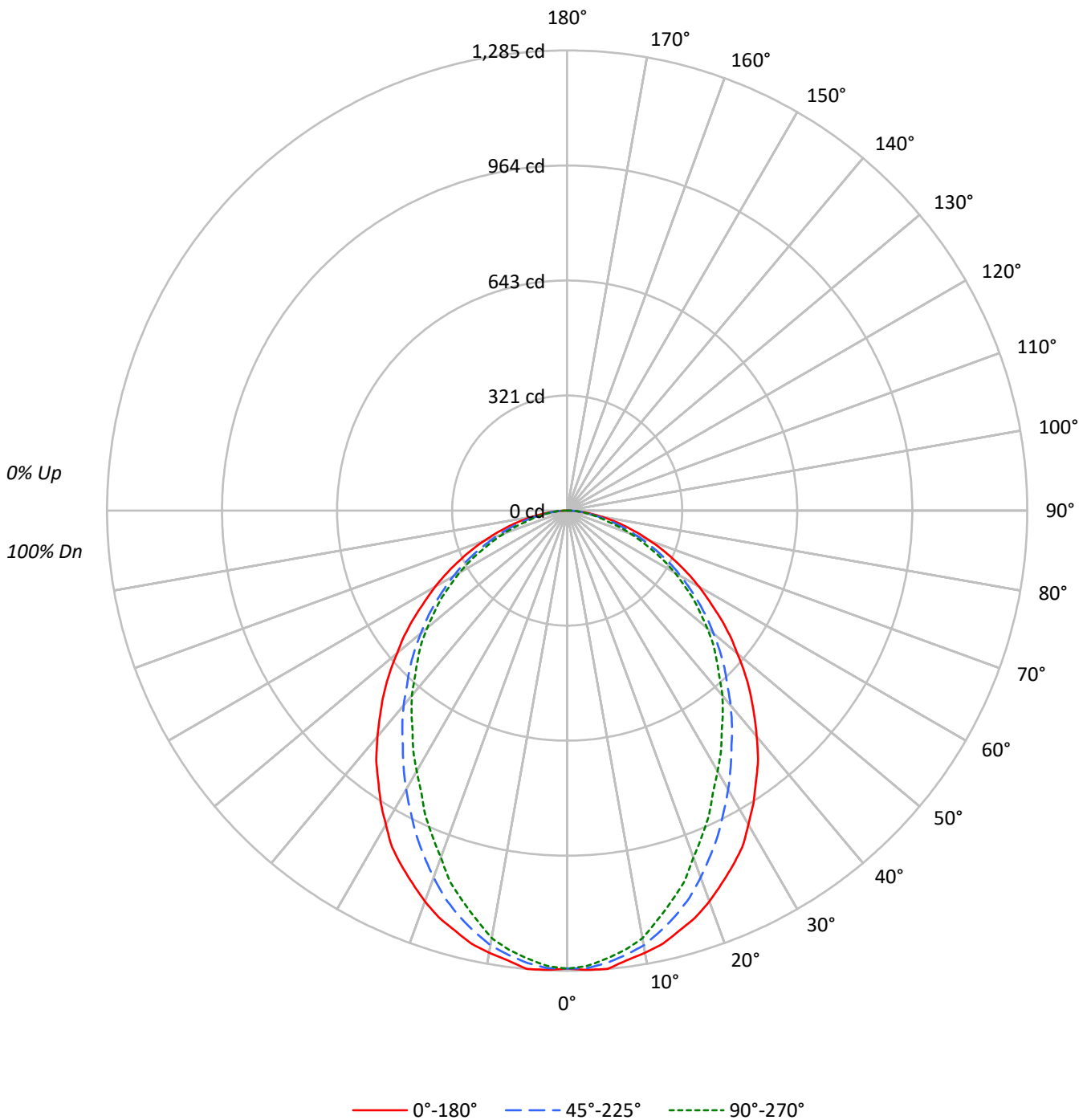
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3441	3441	3441
5°	3471	3426	3394
10°	3427	3368	3313
15°	3381	3262	3143
20°	3326	3123	2953
25°	3248	2963	2784
30°	3145	2795	2611
35°	3021	2628	2472
40°	2894	2494	2369
45°	2756	2364	2246
50°	2595	2233	2133
55°	2447	2107	2018
60°	2290	1977	1869
65°	2120	1826	1675
70°	1930	1641	1483
75°	1737	1466	1208
80°	1488	1193	1139
85°	1207	1133	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	4.3
10°-20°	328.6	11.7
20°-30°	461.3	16.4
30°-40°	511.6	18.2
40°-50°	491.1	17.5
50°-60°	411.6	14.7
60°-70°	288.9	10.3
70°-80°	150.9	5.4
80°-90°	42.2	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°	909.6	32.4
0°-40°	1421.2	50.7
0°-60°	2324.0	82.8
0°-90°	2806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1285	1268	1268	1260	1256	121
15°	1214	1192	1171	1140	1128	342
25°	1094	1055	998	949	938	503
35°	920	869	800	761	753	576
45°	724	668	621	597	590	558
55°	522	482	449	435	430	466
65°	333	310	287	269	263	331
75°	167	154	141	124	116	177
85°	39	37	37	37	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.9	1278.9	1278.9	1278.9	1278.9
2.5°	1283.6	1276.5	1278.9	1278.9	1272.9
5°	1284.8	1268.2	1268.2	1259.9	1256.3
7.5°	1267.0	1254.0	1251.6	1240.9	1237.4
10°	1254.0	1240.9	1232.6	1218.4	1212.5
12.5°	1238.6	1218.4	1203.0	1179.3	1169.8
15°	1213.7	1192.3	1171.0	1140.2	1128.3
17.5°	1191.2	1166.3	1134.3	1099.9	1086.9
20°	1161.5	1131.9	1090.4	1043.0	1031.1
22.5°	1127.2	1092.8	1044.2	993.2	983.7
25°	1094.0	1054.9	998.0	949.4	937.5
27.5°	1059.6	1012.2	947.0	894.8	883.0
30°	1012.2	963.6	899.6	848.6	840.3
32.5°	968.3	919.7	849.8	808.3	798.8
35°	919.7	868.8	800.0	760.9	752.6
37.5°	875.9	816.6	756.2	718.2	713.5
40°	823.7	770.4	710.0	681.5	674.4
42.5°	772.8	719.4	662.5	637.7	629.4
45°	724.2	668.5	621.1	597.4	590.2
47.5°	673.2	622.2	577.2	558.2	553.5
50°	619.9	574.8	533.4	515.6	509.6
52.5°	572.5	526.2	491.9	475.3	468.2
55°	521.5	482.4	449.2	435.0	430.2
57.5°	470.5	438.5	406.5	393.5	386.4
60°	425.5	393.5	367.4	352.0	347.3
62.5°	379.3	352.0	327.1	312.9	307.0
65°	333.0	310.5	286.8	269.0	263.1
67.5°	290.4	265.5	246.5	231.1	225.2
70°	245.3	227.6	208.6	194.4	188.5
72.5°	203.9	190.8	174.2	158.8	152.9
75°	167.1	154.1	141.0	124.4	116.2
77.5°	130.4	122.1	109.0	94.8	94.8
80°	96.0	91.3	77.0	74.7	73.5
82.5°	66.4	64.0	55.7	54.5	54.5
85°	39.1	36.7	36.7	36.7	36.7
87.5°	16.6	17.8	19.0	19.0	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)