

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: P229528

Luminaire Tested: **14RLN-LD5-26-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-UNV-L930-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

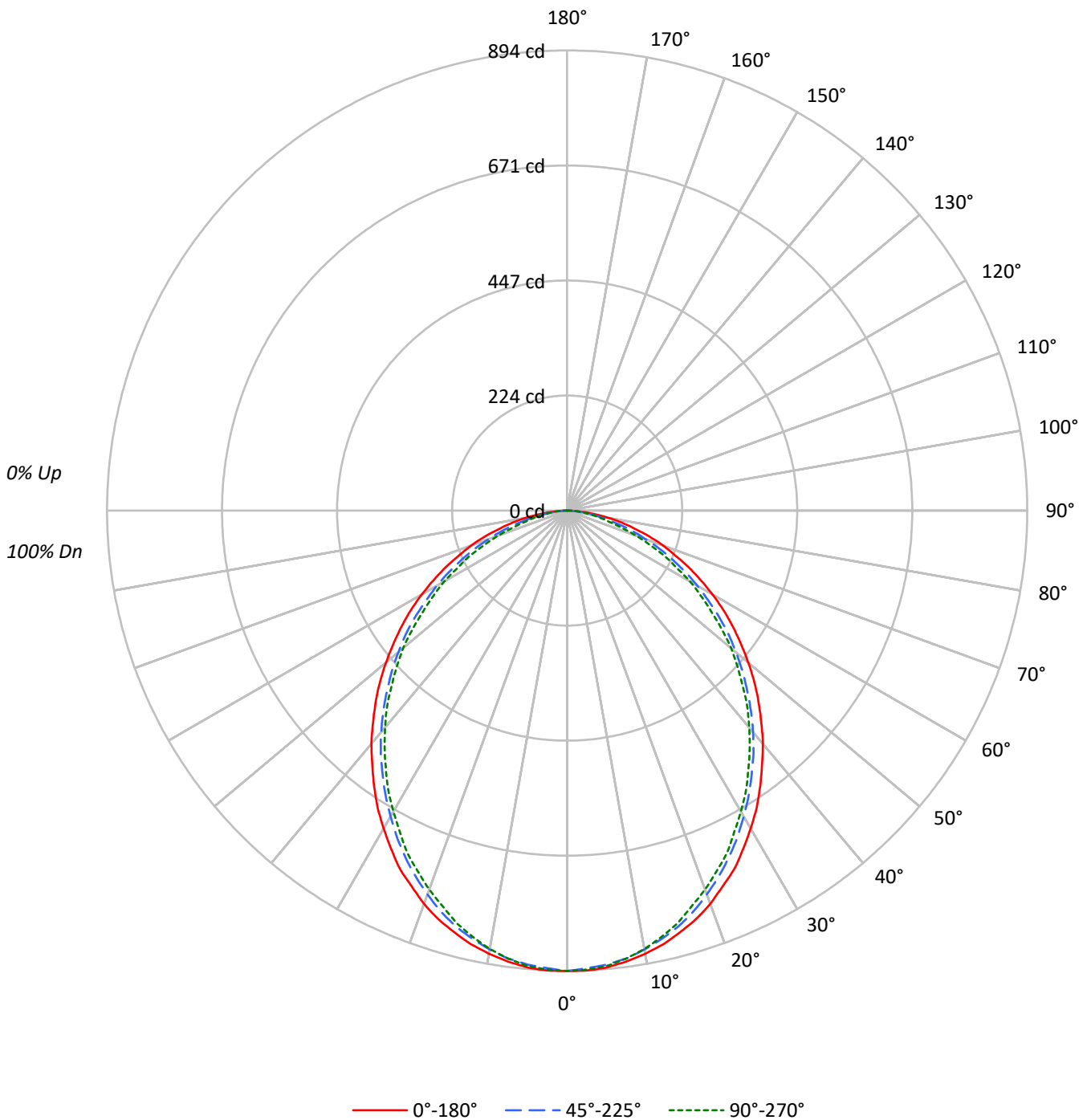
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3014	3014	3014
5°	3013	2994	3004
10°	2991	2962	2959
15°	2959	2917	2894
20°	2915	2845	2809
25°	2857	2764	2730
30°	2774	2670	2626
35°	2689	2571	2525
40°	2603	2473	2419
45°	2506	2356	2299
50°	2408	2243	2180
55°	2306	2116	2007
60°	2196	1966	1859
65°	2075	1801	1669
70°	1953	1596	1414
75°	1760	1362	1098
80°	1564	1079	970
85°	1287	858	893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	3.9
10°-20°	235.9	11.0
20°-30°	343.9	16.1
30°-40°	394.2	18.4
40°-50°	385.4	18.0
50°-60°	325.1	15.2
60°-70°	227.3	10.6
70°-80°	115.9	5.4
80°-90°	29.2	1.4
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°	663.9	31.0
0°-40°	1058.1	49.4
0°-60°	1768.6	82.6
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	891	889	885	888	888	84
15°	848	845	836	833	830	239
25°	768	759	744	736	734	353
35°	654	644	625	618	614	409
45°	526	512	494	488	482	406
55°	393	378	360	350	342	351
65°	260	244	226	213	209	258
75°	135	124	105	92	84	145
85°	33	25	22	23	23	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.5	894.5	894.5	894.5	894.5
2.5°	894.5	892.6	889.8	893.5	892.6
5°	890.8	888.9	885.2	888.0	888.0
7.5°	883.4	881.5	877.8	879.7	877.8
10°	874.1	872.2	865.8	866.7	864.8
12.5°	863.0	859.3	851.9	850.9	848.2
15°	848.2	845.4	836.1	833.4	829.7
17.5°	832.4	826.9	816.7	811.1	805.6
20°	813.0	805.6	793.5	787.1	783.4
22.5°	789.8	784.3	769.5	762.1	758.4
25°	768.5	759.3	743.5	736.1	734.3
27.5°	740.8	733.4	715.8	709.3	703.7
30°	713.0	704.6	686.1	679.6	675.0
32.5°	685.2	675.9	656.5	649.1	646.3
35°	653.7	644.5	625.0	618.5	613.9
37.5°	622.2	611.1	594.5	587.1	582.4
40°	591.7	578.7	562.1	553.7	550.0
42.5°	558.3	544.5	528.7	520.4	518.5
45°	525.9	512.1	494.5	488.0	482.4
47.5°	493.5	477.8	462.0	452.8	449.1
50°	459.3	444.5	427.8	418.5	415.8
52.5°	425.9	411.1	395.4	385.2	378.7
55°	392.6	377.8	360.2	350.0	341.7
57.5°	360.2	342.6	325.0	313.0	308.3
60°	325.9	310.2	291.7	279.6	275.9
62.5°	292.6	278.7	259.3	245.4	238.9
65°	260.2	244.5	225.9	213.0	209.3
67.5°	226.9	213.0	194.4	179.6	173.2
70°	198.2	180.6	162.0	149.1	143.5
72.5°	167.6	151.9	134.3	119.4	111.1
75°	135.2	124.1	104.6	91.7	84.3
77.5°	109.3	96.3	78.7	68.5	66.7
80°	80.6	70.4	55.6	50.9	50.0
82.5°	56.5	46.3	38.0	36.1	35.2
85°	33.3	25.0	22.2	23.1	23.1
87.5°	13.9	10.2	10.2	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)