

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: P229640

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-RDP-UNV-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2260.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

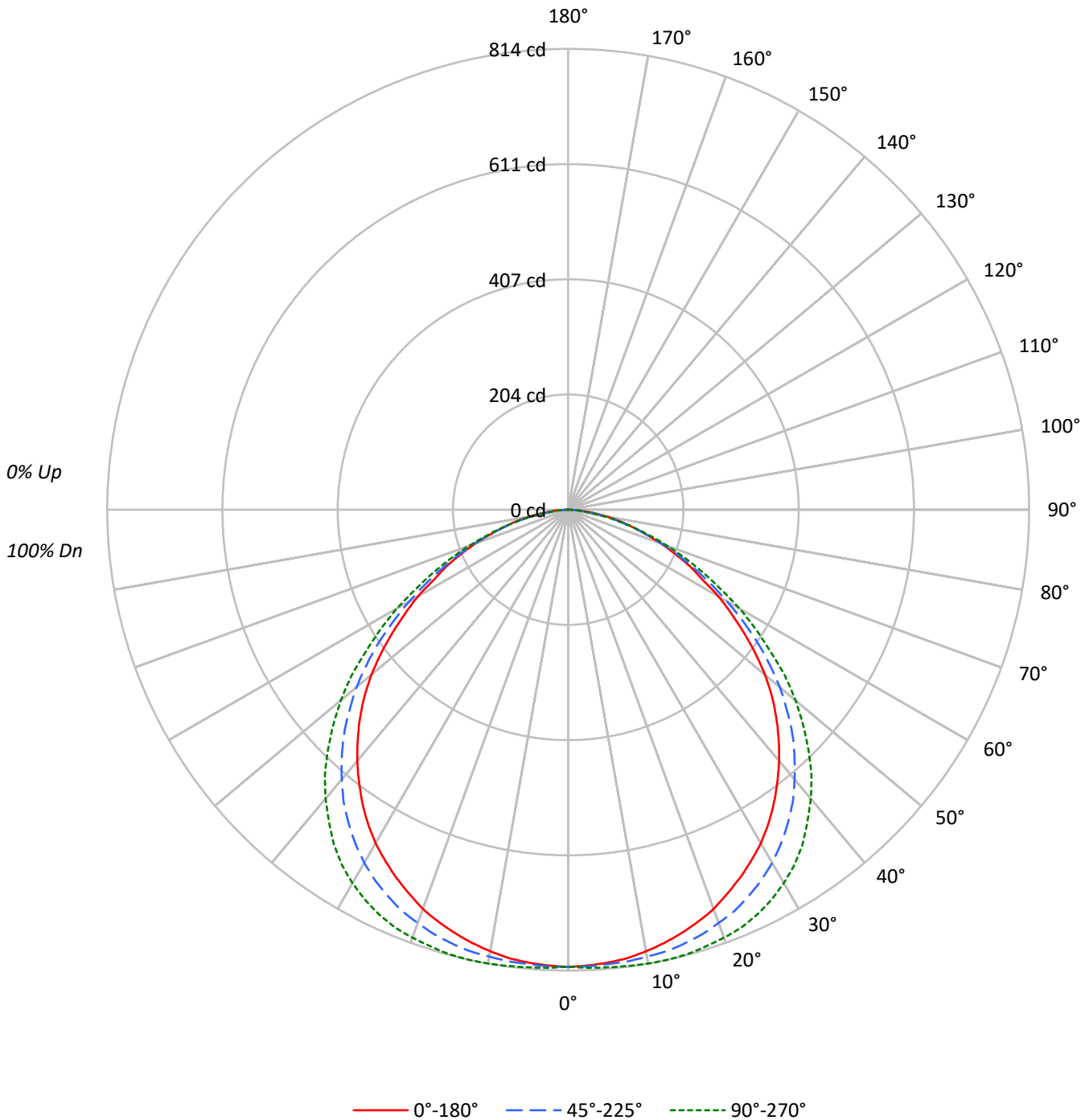
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2585	2585	2585
5°	2582	2591	2609
10°	2576	2607	2648
15°	2567	2631	2695
20°	2558	2648	2742
25°	2535	2662	2789
30°	2515	2663	2817
35°	2475	2643	2821
40°	2421	2600	2786
45°	2354	2535	2717
50°	2259	2431	2610
55°	2115	2277	2431
60°	1966	2072	2240
65°	1802	1865	1990
70°	1631	1656	1734
75°	1437	1403	1454
80°	1249	1147	1096
85°	1014	761	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.4
10°-20°	224.1	9.9
20°-30°	347.3	15.4
30°-40°	422.7	18.7
40°-50°	430.5	19.0
50°-60°	363.0	16.1
60°-70°	245.6	10.9
70°-80°	122.7	5.4
80°-90°	27.3	1.2
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°	648.3	28.7
0°-40°	1071.0	47.4
0°-60°	1864.4	82.5
0°-90°	2260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	803	804	806	810	811	76
15°	774	780	794	807	813	219
25°	717	728	753	778	789	331
35°	633	647	676	708	722	396
45°	520	529	560	589	600	400
55°	379	384	408	427	435	339
65°	238	234	246	257	263	235
75°	116	112	113	115	118	124
85°	28	24	21	18	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.3	807.3	807.3	807.3	807.3
2.5°	805.9	805.9	807.3	808.7	810.0
5°	803.1	804.5	805.9	810.0	811.4
7.5°	799.0	800.4	804.5	810.0	812.8
10°	792.1	794.8	801.8	810.0	814.2
12.5°	783.8	787.9	799.0	808.7	814.2
15°	774.1	779.6	793.5	807.3	812.8
17.5°	763.0	770.0	786.5	801.8	808.7
20°	750.6	758.9	776.9	796.2	804.5
22.5°	734.0	745.1	767.2	789.3	799.0
25°	717.4	728.5	753.4	778.3	789.3
27.5°	699.5	711.9	738.2	765.8	776.9
30°	680.1	691.2	720.2	749.2	761.7
32.5°	658.0	669.0	699.5	729.9	743.7
35°	633.1	646.9	676.0	707.8	721.6
37.5°	606.8	619.3	651.1	681.5	693.9
40°	579.2	591.6	622.0	653.8	666.3
42.5°	550.2	562.6	591.6	622.0	635.9
45°	519.8	529.4	559.8	588.9	599.9
47.5°	488.0	494.9	523.9	551.5	562.6
50°	453.4	460.3	488.0	512.8	523.9
52.5°	416.1	421.6	447.9	470.0	482.4
55°	378.8	384.3	407.8	427.1	435.4
57.5°	341.4	344.2	364.9	384.3	392.6
60°	306.9	306.9	323.5	338.7	349.7
62.5°	266.8	270.9	283.4	298.6	302.7
65°	237.8	233.6	246.1	257.1	262.6
67.5°	204.6	201.8	210.1	219.8	222.6
70°	174.2	170.0	176.9	182.5	185.2
72.5°	142.4	141.0	143.8	147.9	149.3
75°	116.1	112.0	113.4	114.7	117.5
77.5°	92.6	85.7	87.1	85.7	87.1
80°	67.7	62.2	62.2	60.8	59.4
82.5°	45.6	42.9	40.1	37.3	35.9
85°	27.6	23.5	20.7	18.0	18.0
87.5°	11.1	8.3	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)