

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: P229629

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229629
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-LD5-35-RDP-UNV-L930-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2395.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

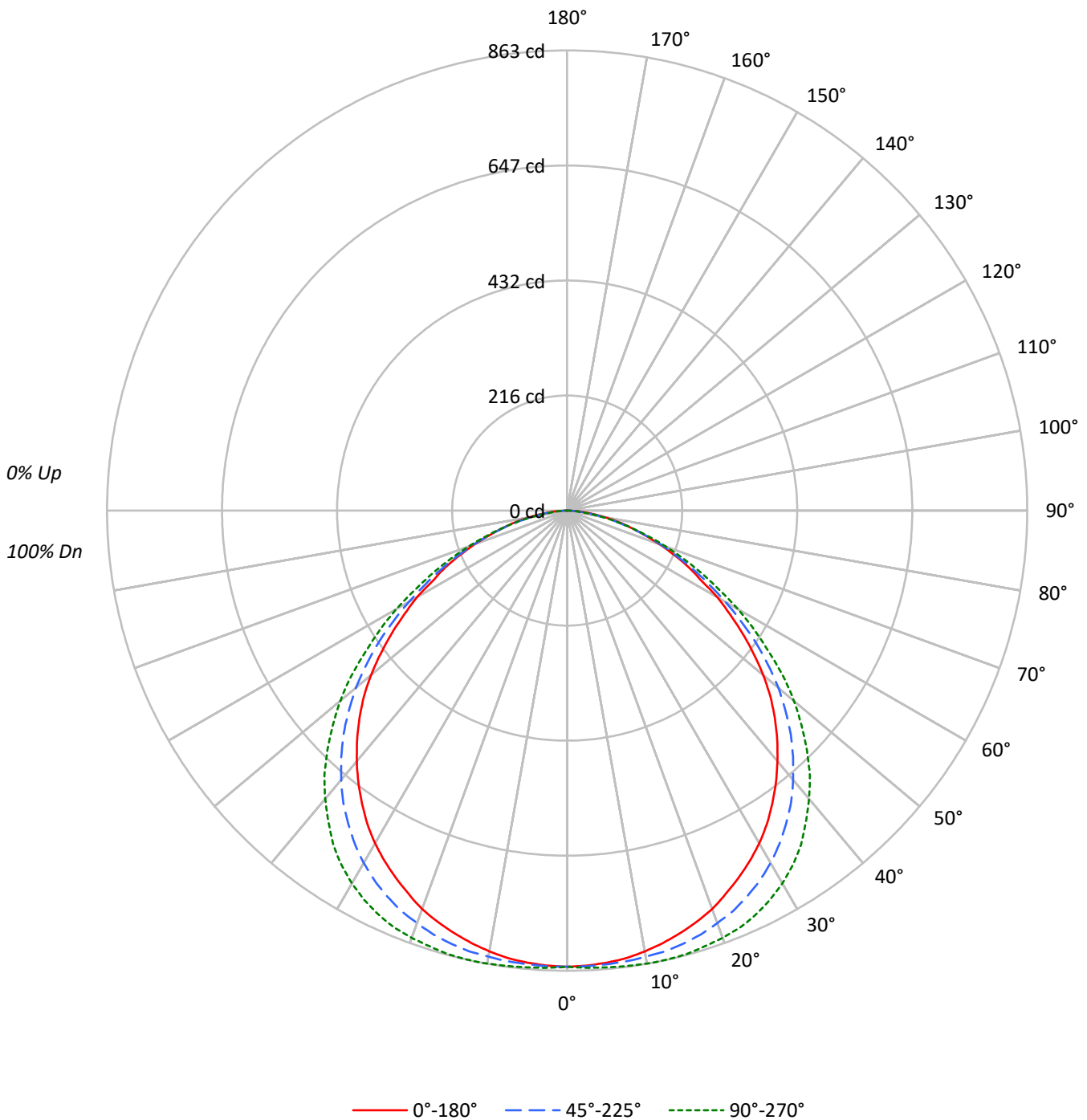
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2740	2740	2740
5°	2736	2745	2764
10°	2730	2763	2806
15°	2720	2788	2856
20°	2711	2806	2906
25°	2687	2821	2956
30°	2665	2822	2985
35°	2623	2800	2990
40°	2566	2756	2952
45°	2495	2687	2880
50°	2394	2576	2766
55°	2241	2413	2576
60°	2083	2196	2374
65°	1910	1976	2109
70°	1729	1756	1838
75°	1523	1486	1541
80°	1324	1215	1162
85°	1077	808	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.4
10°-20°	237.5	9.9
20°-30°	368.0	15.4
30°-40°	447.9	18.7
40°-50°	456.2	19.0
50°-60°	384.7	16.1
60°-70°	260.2	10.9
70°-80°	130.0	5.4
80°-90°	28.9	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°	687.0	28.7
0°-40°	1134.9	47.4
0°-60°	1975.8	82.5
0°-90°	2395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	851	853	854	858	860	81
15°	820	826	841	856	861	232
25°	760	772	798	825	836	350
35°	671	686	716	750	765	419
45°	551	561	593	624	636	424
55°	401	407	432	453	461	359
65°	252	248	261	272	278	249
75°	123	119	120	122	124	132
85°	29	25	22	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.5	855.5	855.5	855.5	855.5
2.5°	854.0	854.0	855.5	857.0	858.4
5°	851.1	852.6	854.0	858.4	859.9
7.5°	846.7	848.2	852.6	858.4	861.4
10°	839.4	842.3	849.6	858.4	862.8
12.5°	830.6	835.0	846.7	857.0	862.8
15°	820.3	826.2	840.9	855.5	861.4
17.5°	808.6	815.9	833.5	849.6	857.0
20°	795.4	804.2	823.3	843.8	852.6
22.5°	777.9	789.6	813.0	836.5	846.7
25°	760.3	772.0	798.4	824.7	836.5
27.5°	741.2	754.4	782.3	811.6	823.3
30°	720.7	732.5	763.2	794.0	807.2
32.5°	697.3	709.0	741.2	773.5	788.1
35°	670.9	685.6	716.3	750.0	764.7
37.5°	643.1	656.3	690.0	722.2	735.4
40°	613.8	627.0	659.2	692.9	706.1
42.5°	583.0	596.2	627.0	659.2	673.9
45°	550.8	561.1	593.3	624.0	635.8
47.5°	517.1	524.4	555.2	584.5	596.2
50°	480.5	487.8	517.1	543.5	555.2
52.5°	440.9	446.8	474.6	498.1	511.3
55°	401.4	407.2	432.1	452.7	461.4
57.5°	361.8	364.8	386.7	407.2	416.0
60°	325.2	325.2	342.8	358.9	370.6
62.5°	282.7	287.1	300.3	316.4	320.8
65°	252.0	247.6	260.8	272.5	278.3
67.5°	216.8	213.9	222.7	232.9	235.8
70°	184.6	180.2	187.5	193.4	196.3
72.5°	150.9	149.4	152.3	156.7	158.2
75°	123.1	118.7	120.1	121.6	124.5
77.5°	98.1	90.8	92.3	90.8	92.3
80°	71.8	65.9	65.9	64.5	63.0
82.5°	48.3	45.4	42.5	39.6	38.1
85°	29.3	24.9	22.0	19.0	19.0
87.5°	11.7	8.8	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)