

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: P229796

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-RDP-UNV-L840-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2636.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

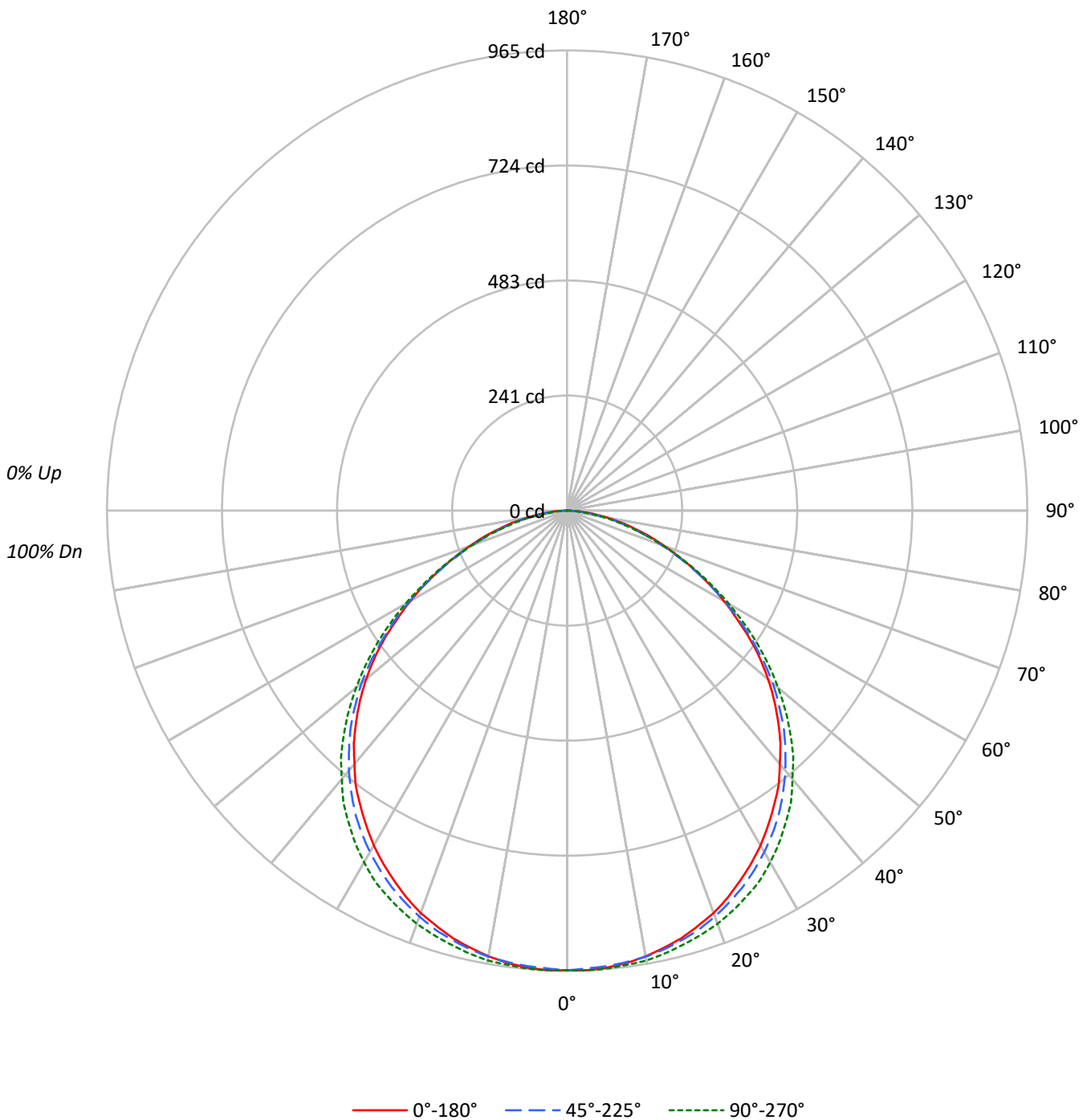
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1477	1477	1477
5°	1479	1474	1482
10°	1476	1478	1490
15°	1472	1478	1494
20°	1464	1477	1503
25°	1448	1472	1507
30°	1434	1463	1507
35°	1414	1449	1494
40°	1388	1424	1470
45°	1356	1391	1434
50°	1311	1342	1377
55°	1247	1263	1300
60°	1164	1170	1201
65°	1069	1062	1087
70°	972	945	949
75°	864	817	811
80°	750	670	653
85°	615	474	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.5
10°-20°	263.6	10.0
20°-30°	402.3	15.3
30°-40°	485.0	18.4
40°-50°	494.6	18.8
50°-60°	423.3	16.1
60°-70°	291.6	11.1
70°-80°	149.5	5.7
80°-90°	34.8	1.3
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°	757.3	28.7
0°-40°	1242.3	47.1
0°-60°	2160.2	81.9
0°-90°	2636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	962	960	959	962	964	91
15°	928	927	932	939	942	262
25°	857	860	871	886	892	395
35°	756	759	775	792	799	473
45°	626	627	642	658	662	482
55°	467	464	473	483	487	417
65°	295	288	293	295	300	293
75°	146	140	138	138	137	157
85°	35	31	27	24	21	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964	964	964	964	964
2.5°	965	963	961	963	965
5°	962	960	959	962	964
7.5°	957	955	955	959	961
10°	949	948	950	954	958
12.5°	939	939	942	947	951
15°	928	927	932	939	942
17.5°	913	914	921	929	933
20°	898	899	906	917	922
22.5°	879	881	889	903	908
25°	857	860	871	886	892
27.5°	835	838	850	867	875
30°	811	815	827	845	852
32.5°	784	787	802	820	827
35°	756	759	775	792	799
37.5°	728	728	744	764	771
40°	694	695	712	731	735
42.5°	662	662	677	695	702
45°	626	627	642	658	662
47.5°	589	589	602	617	621
50°	550	548	563	575	578
52.5°	510	507	519	529	533
55°	467	464	473	483	487
57.5°	422	418	428	437	439
60°	380	374	382	387	392
62.5°	338	331	337	340	344
65°	295	288	293	295	300
67.5°	254	249	250	253	255
70°	217	211	211	211	212
72.5°	183	174	173	174	174
75°	146	140	138	138	137
77.5°	117	109	108	106	104
80°	85	78	76	75	74
82.5°	59	53	51	49	46
85°	35	31	27	24	21
87.5°	13	12	10	9	9
90°	0	0	0	0	0

(END OF REPORT)