

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: P229656

Luminaire Tested: **22RLN-LD5-20-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

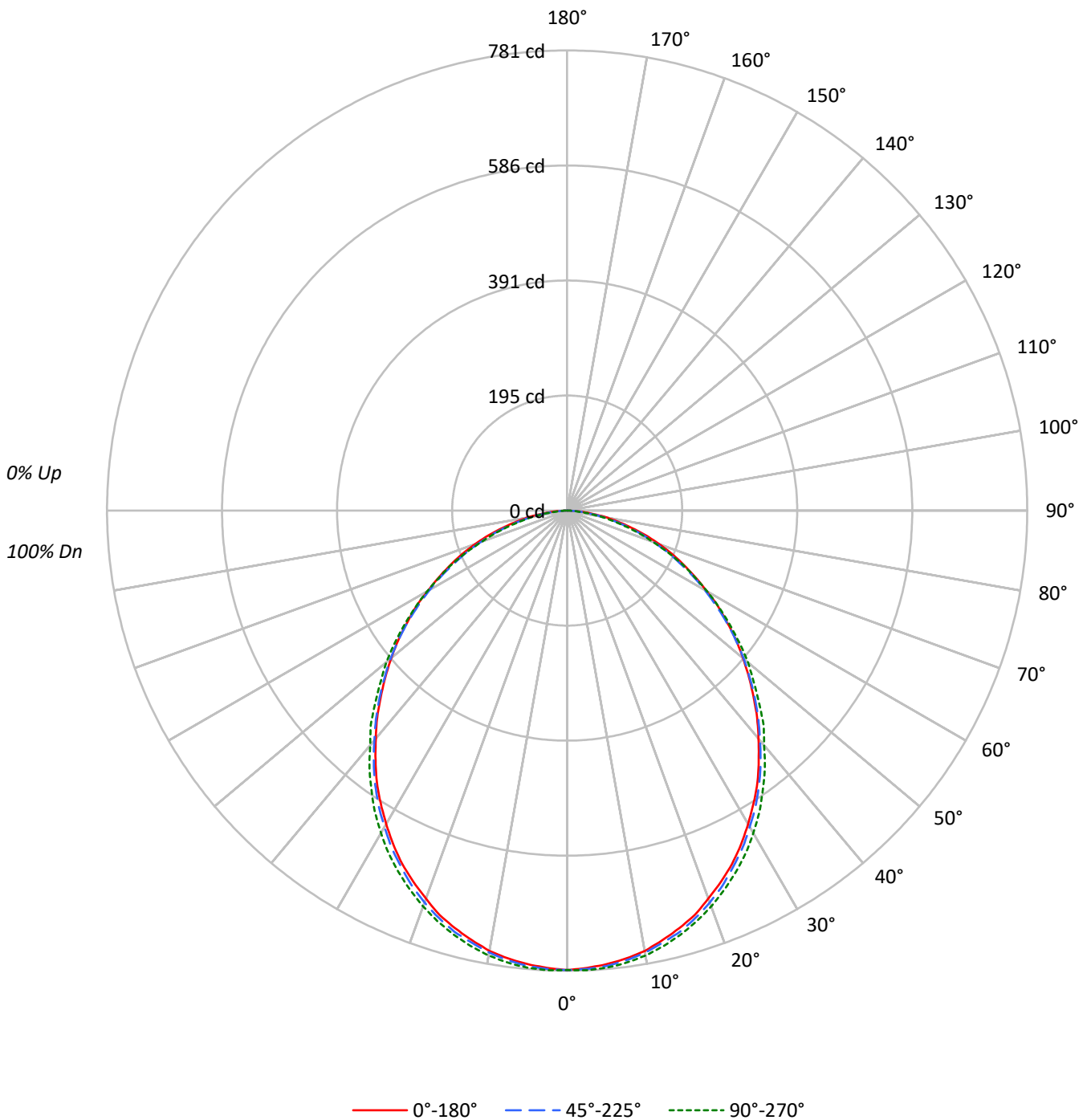
Input Watts (W): 16.43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2497	2497	2497
5°	2484	2494	2504
10°	2468	2477	2494
15°	2433	2453	2470
20°	2389	2413	2436
25°	2339	2357	2392
30°	2271	2293	2337
35°	2202	2221	2264
40°	2112	2129	2175
45°	2026	2039	2085
50°	1940	1950	1995
55°	1851	1845	1879
60°	1752	1727	1759
65°	1657	1597	1635
70°	1552	1468	1440
75°	1408	1297	1247
80°	1271	1105	1031
85°	992	772	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.8
10°-20°	208.4	10.7
20°-30°	307.6	15.8
30°-40°	355.7	18.3
40°-50°	348.9	18.0
50°-60°	296.8	15.3
60°-70°	211.4	10.9
70°-80°	112.8	5.8
80°-90°	26.8	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°	589.6	30.4
0°-40°	945.4	48.7
0°-60°	1591.0	81.9
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	773	774	776	778	779	73
15°	734	735	740	744	745	207
25°	662	663	667	674	677	304
35°	563	561	568	577	579	351
45°	447	446	450	458	460	345
55°	332	328	330	334	336	297
65°	219	212	211	212	216	217
75°	114	108	105	103	101	122
85°	27	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°	779.8	779.8	779.8	779.8	779.8
2.5°	776.8	777.8	778.8	780.8	780.8
5°	772.8	773.8	775.8	777.8	778.8
7.5°	766.8	766.8	769.8	771.8	773.8
10°	758.8	759.8	761.8	764.8	766.8
12.5°	746.9	748.9	750.9	754.9	756.9
15°	733.9	734.9	739.9	743.9	744.9
17.5°	719.9	719.9	724.9	728.9	730.9
20°	700.9	702.9	707.9	712.9	714.9
22.5°	682.0	684.0	689.0	693.9	696.9
25°	662.0	663.0	667.0	674.0	677.0
27.5°	639.0	641.0	645.0	652.0	656.0
30°	614.1	616.1	620.1	628.0	632.0
32.5°	589.1	591.1	595.1	603.1	607.1
35°	563.1	561.1	568.1	577.1	579.1
37.5°	534.2	535.2	539.2	547.2	551.2
40°	505.2	505.2	509.2	518.2	520.2
42.5°	477.3	476.3	480.3	488.3	493.3
45°	447.3	446.3	450.3	458.3	460.3
47.5°	418.4	416.4	420.4	427.4	429.3
50°	389.4	387.4	391.4	397.4	400.4
52.5°	361.5	357.5	360.5	365.4	368.4
55°	331.5	328.5	330.5	334.5	336.5
57.5°	304.5	298.5	299.5	303.5	305.5
60°	273.6	268.6	269.6	273.6	274.6
62.5°	245.6	240.6	240.6	241.6	243.6
65°	218.7	211.7	210.7	211.7	215.7
67.5°	192.7	185.7	183.7	183.7	184.7
70°	165.7	158.8	156.8	155.8	153.8
72.5°	140.8	131.8	130.8	127.8	128.8
75°	113.8	107.8	104.8	102.8	100.8
77.5°	89.9	84.9	80.9	77.9	77.9
80°	68.9	61.9	59.9	55.9	55.9
82.5°	45.9	42.9	38.9	35.9	34.9
85°	27.0	24.0	21.0	18.0	18.0
87.5°	10.0	8.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)