

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: P229353

Luminaire Tested: **22ALNG-LD5-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36080)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-25-UNV-L840-CD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

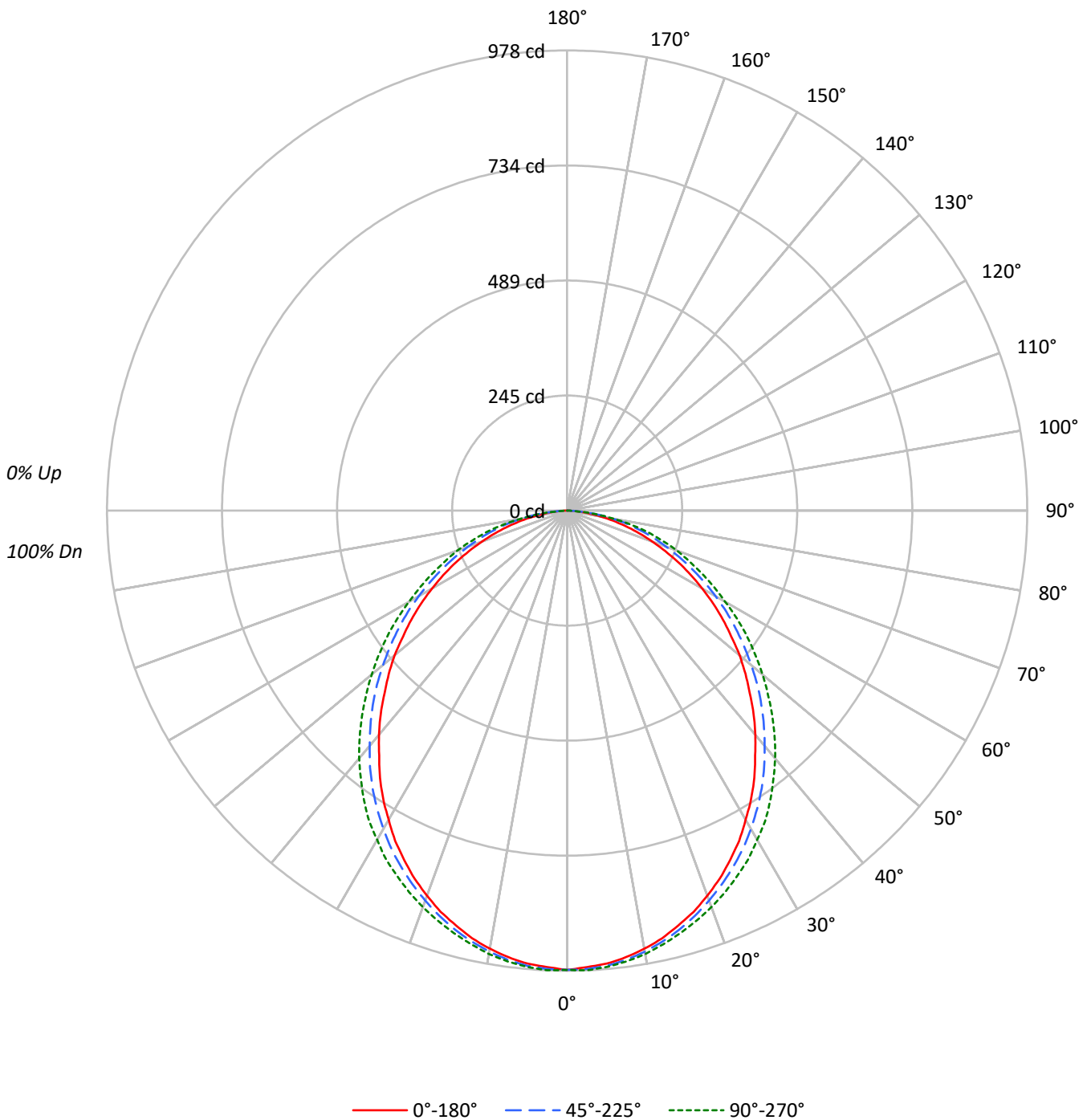
Input Watts (W): 20.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3126	3126	3126
5°	3107	3122	3129
10°	3075	3095	3112
15°	3026	3056	3082
20°	2968	3007	3057
25°	2895	2951	3025
30°	2806	2890	2988
35°	2712	2818	2942
40°	2602	2729	2876
45°	2485	2644	2793
50°	2384	2544	2702
55°	2257	2444	2608
60°	2121	2335	2488
65°	1978	2214	2390
70°	1797	2095	2322
75°	1597	1982	2200
80°	1326	1796	1828
85°	1040	1205	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.6
10°-20°	259.8	10.3
20°-30°	385.3	15.3
30°-40°	451.0	17.9
40°-50°	449.8	17.8
50°-60°	390.1	15.5
60°-70°	287.7	11.4
70°-80°	165.8	6.6
80°-90°	40.4	1.6
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°	737.2	29.2
0°-40°	1188.2	47.1
0°-60°	2028.1	80.4
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	966	968	971	973	973	92
15°	913	915	922	929	930	257
25°	819	823	835	851	856	377
35°	694	699	721	743	752	433
45°	549	558	584	607	617	424
55°	404	414	438	458	467	361
65°	261	273	292	306	315	258
75°	129	140	160	174	178	137
85°	28	33	33	32	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.2	976.2	976.2	976.2	976.2
2.5°	971.1	972.2	975.0	977.3	977.9
5°	966.5	967.7	971.1	972.8	973.3
7.5°	957.5	960.3	963.1	966.0	966.5
10°	945.6	948.4	951.8	955.2	956.9
12.5°	931.4	932.6	938.2	942.2	943.9
15°	912.8	915.0	921.8	928.6	929.7
17.5°	894.1	896.9	903.1	911.1	913.9
20°	870.8	873.7	882.2	892.4	896.9
22.5°	847.1	849.3	859.5	872.0	877.6
25°	819.3	822.7	835.2	851.0	856.1
27.5°	791.6	794.4	809.7	827.3	834.6
30°	758.7	765.0	781.4	801.2	808.0
32.5°	727.6	732.7	751.4	774.0	783.1
35°	693.6	698.7	720.8	743.4	752.5
37.5°	656.3	665.3	688.0	711.7	720.2
40°	622.3	630.8	652.9	677.8	688.0
42.5°	586.6	593.4	618.9	643.2	652.9
45°	548.7	558.3	583.8	607.0	616.6
47.5°	514.1	523.2	548.1	570.2	579.2
50°	478.5	487.0	510.7	534.5	542.4
52.5°	439.4	450.7	473.9	496.0	504.5
55°	404.3	413.9	437.7	457.5	467.1
57.5°	368.0	377.7	401.5	418.4	428.1
60°	331.2	343.7	364.6	382.2	388.4
62.5°	296.7	305.2	327.8	343.7	351.6
65°	261.0	272.9	292.2	306.3	315.4
67.5°	225.9	238.9	257.6	273.5	279.7
70°	191.9	205.0	223.7	238.4	248.0
72.5°	160.2	172.7	191.9	206.1	211.8
75°	129.1	140.4	160.2	174.4	177.8
77.5°	99.7	112.1	130.8	139.3	140.4
80°	71.9	84.4	97.4	101.9	99.1
82.5°	48.7	57.2	66.2	65.1	66.2
85°	28.3	33.4	32.8	32.3	30.0
87.5°	10.8	11.9	9.1	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)