

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: P229416

Luminaire Tested: **22ALNG-LD5-25-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)
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-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2405.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

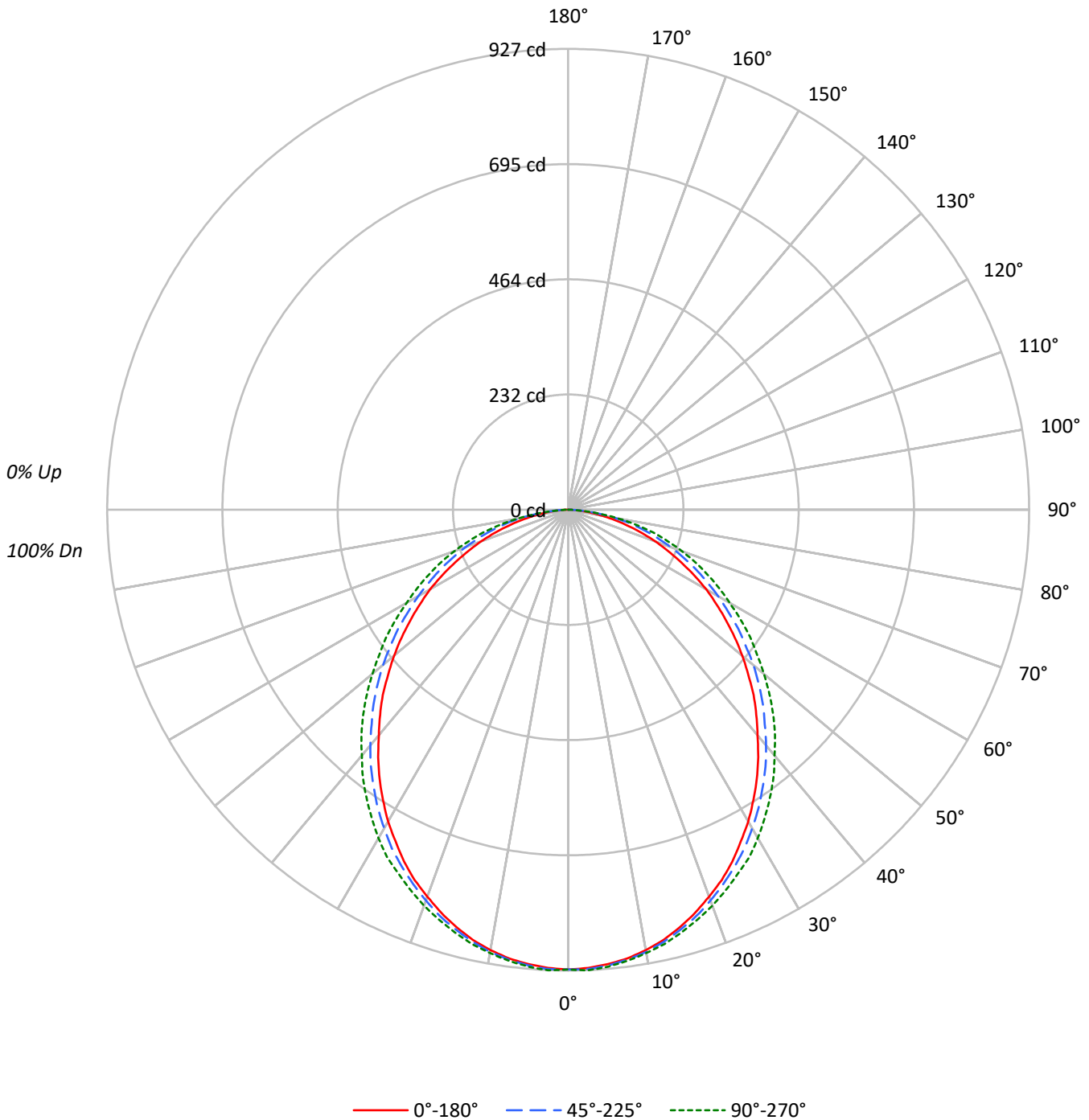
Input Watts (W): 20.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2962	2962	2962
5°	2950	2958	2966
10°	2925	2937	2945
15°	2882	2898	2918
20°	2823	2851	2889
25°	2760	2798	2854
30°	2678	2736	2821
35°	2586	2666	2765
40°	2477	2588	2699
45°	2388	2508	2640
50°	2277	2422	2560
55°	2160	2329	2491
60°	2052	2230	2401
65°	1897	2144	2345
70°	1743	2049	2275
75°	1526	1945	2184
80°	1271	1761	1874
85°	977	1246	1154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	3.6
10°-20°	246.5	10.3
20°-30°	365.3	15.2
30°-40°	427.1	17.8
40°-50°	426.8	17.7
50°-60°	372.1	15.5
60°-70°	278.2	11.6
70°-80°	161.9	6.7
80°-90°	39.8	1.7
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°	699.1	29.1
0°-40°	1126.2	46.8
0°-60°	1925.1	80.0
0°-90°	2405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	918	919	920	922	922	87
15°	869	870	874	878	880	245
25°	781	784	792	803	808	359
35°	661	666	682	701	707	413
45°	527	533	554	574	583	406
55°	387	394	417	436	446	347
65°	250	260	283	301	310	249
75°	123	137	157	169	176	132
85°	27	31	34	33	31	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.9	924.9	924.9	924.9	924.9
2.5°	922.5	922.5	924.9	926.2	927.4
5°	917.7	918.9	920.1	922.5	922.5
7.5°	910.4	911.6	912.9	915.3	915.3
10°	899.6	900.8	903.2	905.6	905.6
12.5°	886.3	887.5	889.9	892.3	894.7
15°	869.3	870.5	874.2	877.8	880.2
17.5°	850.0	852.4	857.2	862.1	864.5
20°	828.2	830.6	836.7	845.1	847.6
22.5°	806.5	807.7	814.9	824.6	828.2
25°	781.1	783.5	791.9	802.8	807.7
27.5°	752.0	755.7	767.8	781.1	788.3
30°	724.2	726.7	740.0	756.9	762.9
32.5°	692.8	697.6	712.1	729.1	735.1
35°	661.4	666.2	681.9	701.3	707.3
37.5°	627.5	632.3	651.7	671.0	678.3
40°	592.4	599.7	619.0	639.6	645.6
42.5°	559.8	565.8	585.2	605.7	615.4
45°	527.2	533.2	553.8	574.3	582.8
47.5°	490.9	496.9	519.9	540.5	548.9
50°	457.0	463.1	486.1	506.6	513.9
52.5°	422.0	429.2	449.8	471.5	478.8
55°	386.9	394.2	417.1	436.5	446.2
57.5°	353.1	361.5	380.9	401.4	411.1
60°	320.4	326.5	348.2	367.6	374.8
62.5°	285.3	292.6	314.4	334.9	342.2
65°	250.3	260.0	282.9	301.1	309.5
67.5°	217.6	227.3	250.3	267.2	276.9
70°	186.2	195.9	218.8	234.6	243.0
72.5°	154.8	166.9	187.4	201.9	209.2
75°	123.3	136.6	157.2	169.3	176.5
77.5°	95.5	108.8	127.0	137.8	140.3
80°	68.9	82.2	95.5	100.4	101.6
82.5°	47.2	56.8	64.1	64.1	66.5
85°	26.6	31.4	33.9	32.6	31.4
87.5°	9.7	10.9	9.7	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)