

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: P277302

Luminaire Tested: **22CZ2-39HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2876.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

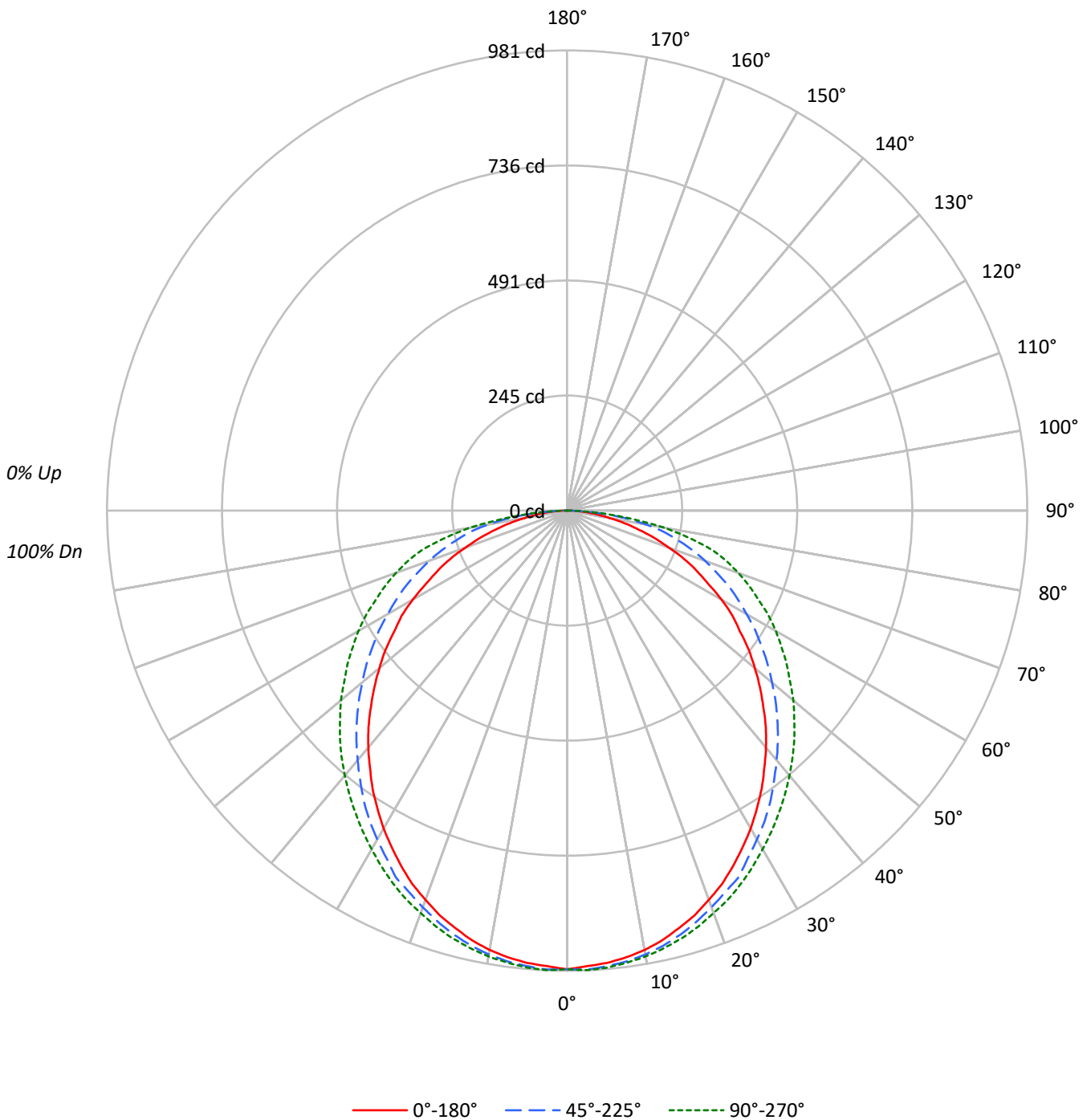
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2632	2632	2632
5°	2615	2634	2642
10°	2599	2626	2637
15°	2567	2606	2630
20°	2529	2578	2614
25°	2483	2563	2605
30°	2432	2515	2590
35°	2376	2483	2585
40°	2317	2441	2590
45°	2251	2413	2606
50°	2186	2388	2637
55°	2111	2377	2682
60°	2049	2376	2765
65°	1947	2415	2865
70°	1815	2461	3051
75°	1663	2545	3296
80°	1447	2653	3245
85°	1266	2359	2578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.2
10°-20°	263.4	9.2
20°-30°	395.4	13.7
30°-40°	472.5	16.4
40°-50°	491.3	17.1
50°-60°	455.4	15.8
60°-70°	373.6	13.0
70°-80°	252.5	8.8
80°-90°	79.3	2.8
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°	751.3	26.1
0°-40°	1223.9	42.6
0°-60°	2170.6	75.5
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	968	969	975	976	978	92
15°	921	926	935	941	944	260
25°	836	844	863	873	877	385
35°	723	733	756	778	787	452
45°	592	603	634	671	685	457
55°	450	464	507	552	572	404
65°	306	323	379	429	450	302
75°	160	187	245	294	317	170
85°	41	57	76	85	84	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.9	977.9	977.9	977.9	977.9
2.5°	972.2	975.1	979.3	980.7	980.7
5°	968.0	969.4	975.1	976.5	977.9
7.5°	960.9	963.7	969.4	970.8	972.2
10°	951.0	953.8	960.9	963.7	965.2
12.5°	938.3	941.1	949.6	953.8	955.3
15°	921.3	925.5	935.4	941.1	943.9
17.5°	904.3	908.5	918.5	926.9	929.8
20°	883.1	893.0	900.1	911.4	912.8
22.5°	861.8	867.5	880.2	891.6	897.2
25°	836.4	843.5	863.3	873.2	877.4
27.5°	809.5	819.4	835.0	850.5	856.2
30°	782.6	789.7	809.5	827.9	833.5
32.5°	752.9	762.8	784.0	802.4	810.9
35°	723.2	733.1	755.7	778.4	786.8
37.5°	690.6	701.9	724.6	751.5	762.8
40°	659.5	668.0	694.9	727.4	737.3
42.5°	626.9	636.8	665.1	700.5	711.8
45°	591.5	602.9	634.0	670.8	684.9
47.5°	557.6	568.9	602.9	639.7	656.6
50°	522.2	536.4	570.3	612.8	629.8
52.5°	488.2	501.0	539.2	583.1	598.6
55°	450.0	464.2	506.6	551.9	571.7
57.5°	418.9	428.8	475.5	522.2	542.0
60°	380.7	393.4	441.5	491.1	513.7
62.5°	339.6	360.9	410.4	461.4	484.0
65°	305.7	322.7	379.3	428.8	450.0
67.5°	270.3	288.7	343.9	396.3	420.3
70°	230.7	254.7	312.8	365.1	387.8
72.5°	195.3	220.8	280.2	331.2	355.2
75°	159.9	186.8	244.8	294.4	317.0
77.5°	126.0	155.7	212.3	250.5	264.6
80°	93.4	121.7	171.2	198.1	209.4
82.5°	65.1	89.2	126.0	140.1	142.9
85°	41.0	56.6	76.4	84.9	83.5
87.5°	18.4	22.6	28.3	31.1	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)