

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: P277296

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277296
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: 22CZ2-34HE-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2829.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

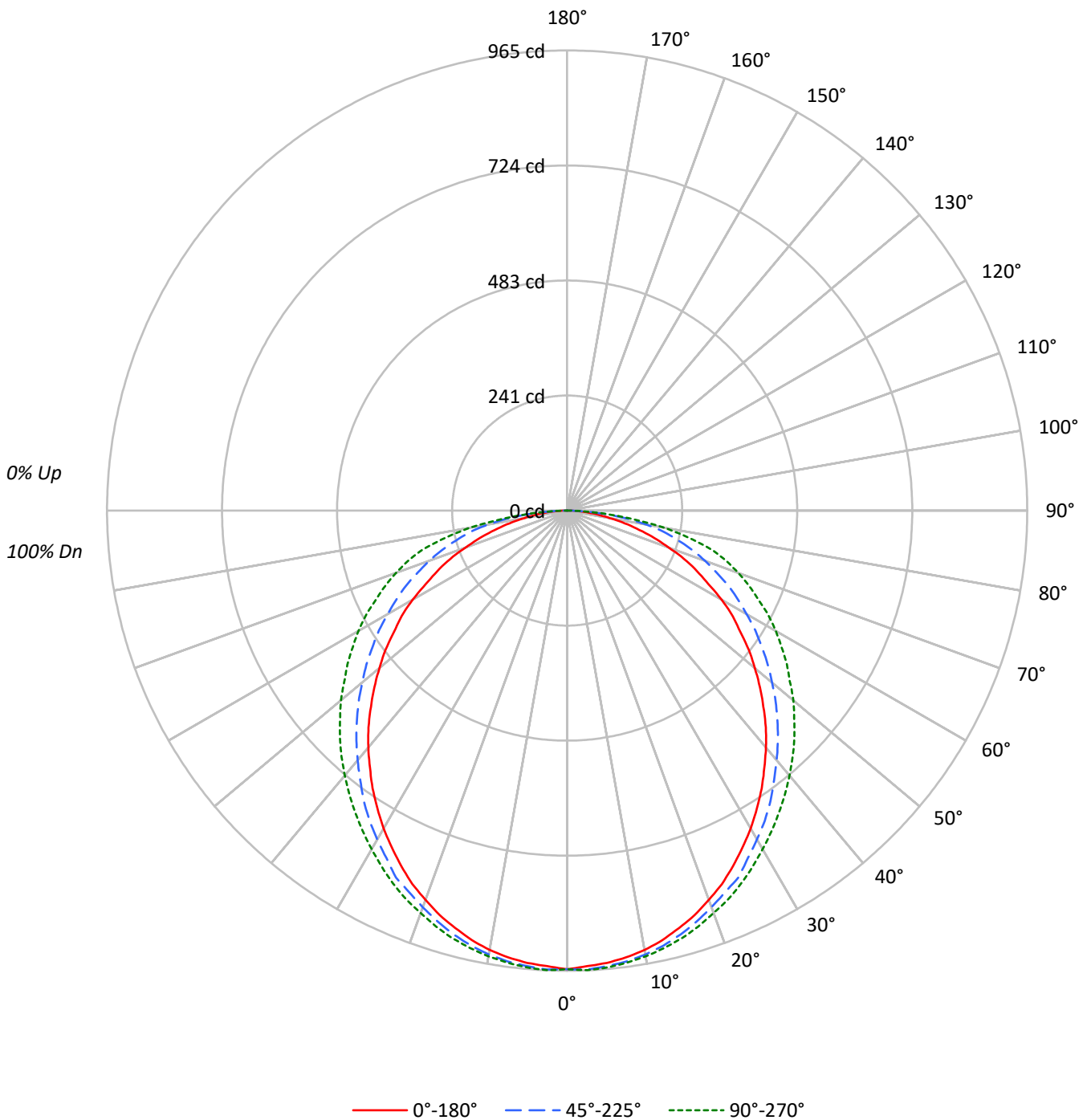
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2588	2588	2588
5°	2572	2591	2598
10°	2556	2583	2594
15°	2525	2564	2587
20°	2487	2535	2571
25°	2443	2521	2563
30°	2392	2474	2548
35°	2337	2442	2543
40°	2279	2401	2548
45°	2214	2373	2564
50°	2151	2349	2593
55°	2077	2338	2639
60°	2016	2337	2720
65°	1915	2376	2819
70°	1785	2420	3001
75°	1635	2504	3242
80°	1424	2610	3192
85°	1247	2322	2535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	259.1	9.2
20°-30°	389.0	13.7
30°-40°	464.8	16.4
40°-50°	483.3	17.1
50°-60°	448.0	15.8
60°-70°	367.4	13.0
70°-80°	248.4	8.8
80°-90°	78.0	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°	739.1	26.1
0°-40°	1203.9	42.6
0°-60°	2135.1	75.5
0°-90°	2829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	952	954	959	960	962	90
15°	906	910	920	926	928	256
25°	823	830	849	859	863	379
35°	711	721	743	766	774	445
45°	582	593	624	660	674	449
55°	443	457	498	543	562	398
65°	301	317	373	422	443	297
75°	157	184	241	290	312	167
85°	40	56	75	84	82	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.9	961.9	961.9	961.9	961.9
2.5°	956.3	959.1	963.3	964.7	964.7
5°	952.2	953.6	959.1	960.5	961.9
7.5°	945.2	948.0	953.6	955.0	956.3
10°	935.5	938.2	945.2	948.0	949.4
12.5°	922.9	925.7	934.1	938.2	939.6
15°	906.2	910.4	920.2	925.7	928.5
17.5°	889.5	893.7	903.4	911.8	914.6
20°	868.6	878.4	885.3	896.5	897.9
22.5°	847.8	853.3	865.9	877.0	882.6
25°	822.7	829.7	849.2	858.9	863.1
27.5°	796.3	806.0	821.3	836.6	842.2
30°	769.8	776.8	796.3	814.4	819.9
32.5°	740.6	750.3	771.2	789.3	797.6
35°	711.3	721.1	743.4	765.6	774.0
37.5°	679.3	690.5	712.7	739.2	750.3
40°	648.7	657.1	683.5	715.5	725.3
42.5°	616.7	626.4	654.3	689.1	700.2
45°	581.9	593.0	623.6	659.8	673.8
47.5°	548.5	559.6	593.0	629.2	645.9
50°	513.7	527.6	561.0	602.8	619.5
52.5°	480.3	492.8	530.4	573.5	588.8
55°	442.7	456.6	498.4	542.9	562.4
57.5°	412.0	421.8	467.7	513.7	533.2
60°	374.5	387.0	434.3	483.0	505.3
62.5°	334.1	355.0	403.7	453.8	476.1
65°	300.7	317.4	373.1	421.8	442.7
67.5°	265.9	284.0	338.3	389.8	413.4
70°	226.9	250.6	307.6	359.2	381.4
72.5°	192.1	217.2	275.6	325.7	349.4
75°	157.3	183.8	240.8	289.5	311.8
77.5°	123.9	153.1	208.8	246.4	260.3
80°	91.9	119.7	168.4	194.9	206.0
82.5°	64.0	87.7	123.9	137.8	140.6
85°	40.4	55.7	75.2	83.5	82.1
87.5°	18.1	22.3	27.8	30.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)