

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: P277365

Luminaire Tested: **22CZ2-34HE-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2628.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

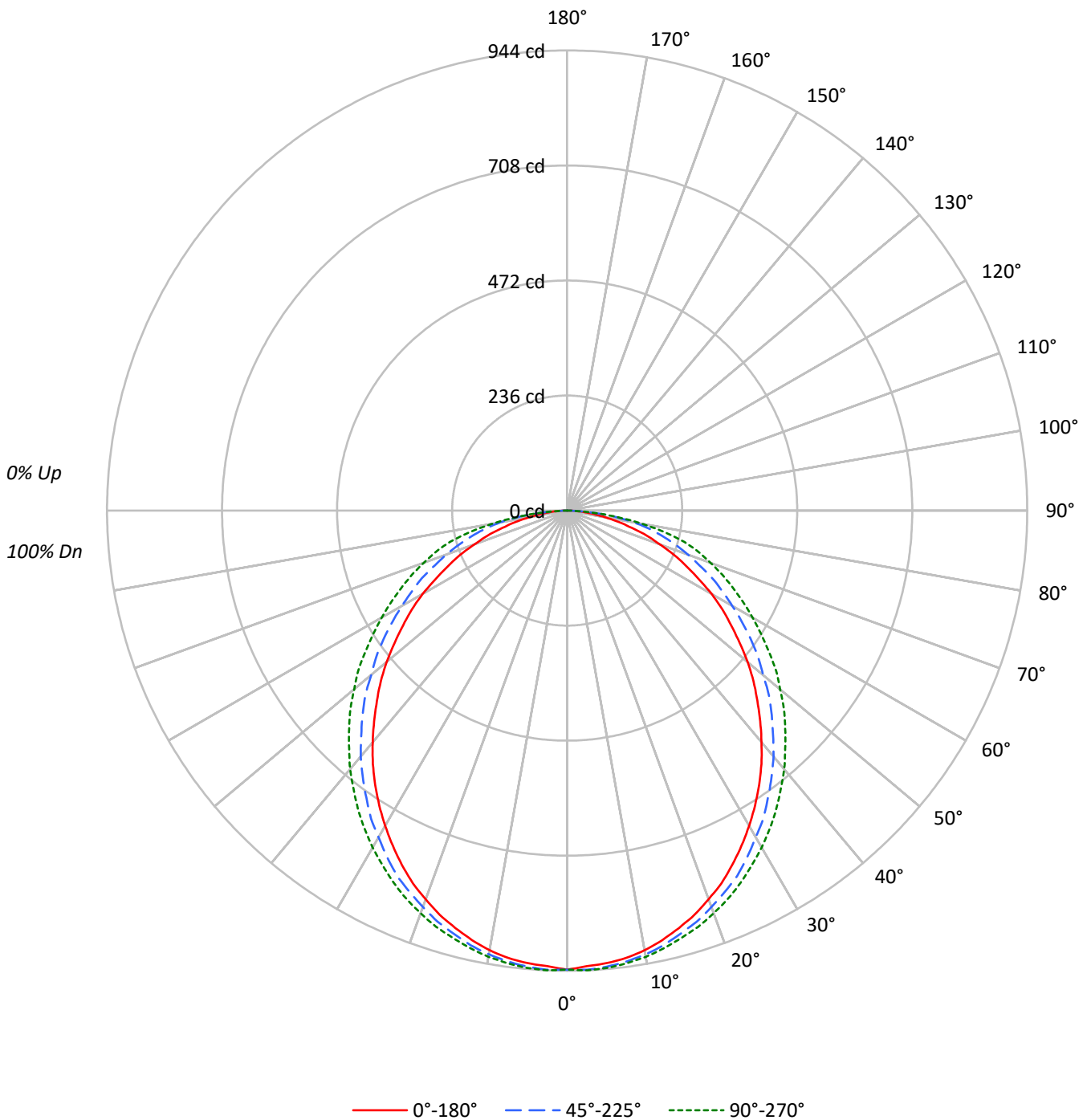
Input Watts (W): 26.258364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2534	2534	2534
5°	2517	2537	2544
10°	2503	2526	2540
15°	2470	2504	2528
20°	2430	2479	2518
25°	2381	2454	2501
30°	2320	2404	2480
35°	2256	2360	2457
40°	2179	2313	2434
45°	2100	2259	2408
50°	2022	2197	2387
55°	1927	2157	2370
60°	1841	2105	2363
65°	1718	2092	2389
70°	1582	2074	2460
75°	1428	2103	2588
80°	1235	2166	2431
85°	1022	1819	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.4
10°-20°	253.4	9.6
20°-30°	379.2	14.4
30°-40°	449.1	17.1
40°-50°	457.7	17.4
50°-60°	410.2	15.6
60°-70°	321.2	12.2
70°-80°	207.1	7.9
80°-90°	61.2	2.3
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°	721.7	27.5
0°-40°	1170.8	44.5
0°-60°	2038.6	77.6
0°-90°	2628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	932	934	939	940	942	88
15°	886	891	899	906	907	250
25°	802	809	826	838	842	369
35°	687	695	718	741	748	429
45°	552	564	594	624	633	426
55°	411	424	460	492	505	368
65°	270	286	329	360	375	268
75°	137	158	202	237	249	147
85°	33	45	59	59	59	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.7	941.7	941.7	941.7	941.7
2.5°	935.6	938.0	942.9	944.1	944.1
5°	931.9	934.3	939.2	940.5	941.7
7.5°	925.8	927.0	933.1	935.6	936.8
10°	915.9	918.4	924.5	928.2	929.4
12.5°	902.5	906.1	913.5	918.4	919.6
15°	886.5	891.4	898.8	906.1	907.4
17.5°	869.4	874.3	884.1	892.6	895.1
20°	848.5	854.6	865.7	875.5	879.2
22.5°	827.7	832.6	846.1	858.3	862.0
25°	801.9	809.3	826.4	837.5	842.4
27.5°	774.9	783.5	800.7	815.4	820.3
30°	746.7	755.3	773.7	792.1	798.2
32.5°	717.3	727.1	749.2	767.6	773.7
35°	686.7	695.2	718.5	740.6	748.0
37.5°	654.8	662.1	689.1	712.4	719.8
40°	620.4	630.2	658.5	685.4	692.8
42.5°	586.1	597.1	625.3	654.8	662.1
45°	551.8	564.0	593.5	624.1	632.7
47.5°	518.7	528.5	561.6	591.0	603.3
50°	483.1	492.9	524.8	557.9	570.2
52.5°	446.3	459.8	494.1	526.0	540.7
55°	410.8	424.3	459.8	491.7	505.2
57.5°	377.7	388.7	425.5	458.6	472.1
60°	342.1	351.9	391.1	426.7	439.0
62.5°	304.1	318.8	359.3	392.4	407.1
65°	269.8	285.7	328.6	360.5	375.2
67.5°	237.9	252.6	294.3	328.6	344.6
70°	201.1	220.7	263.6	298.0	312.7
72.5°	171.7	188.8	233.0	267.3	283.2
75°	137.3	158.2	202.3	236.6	248.9
77.5°	109.1	130.0	171.7	198.6	204.8
80°	79.7	100.5	139.8	153.3	156.9
82.5°	54.0	73.6	100.5	104.2	105.5
85°	33.1	45.4	58.9	58.9	58.9
87.5°	15.9	18.4	20.8	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)