

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: P277290

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277290
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: 22CZ2-29HE-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2493.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

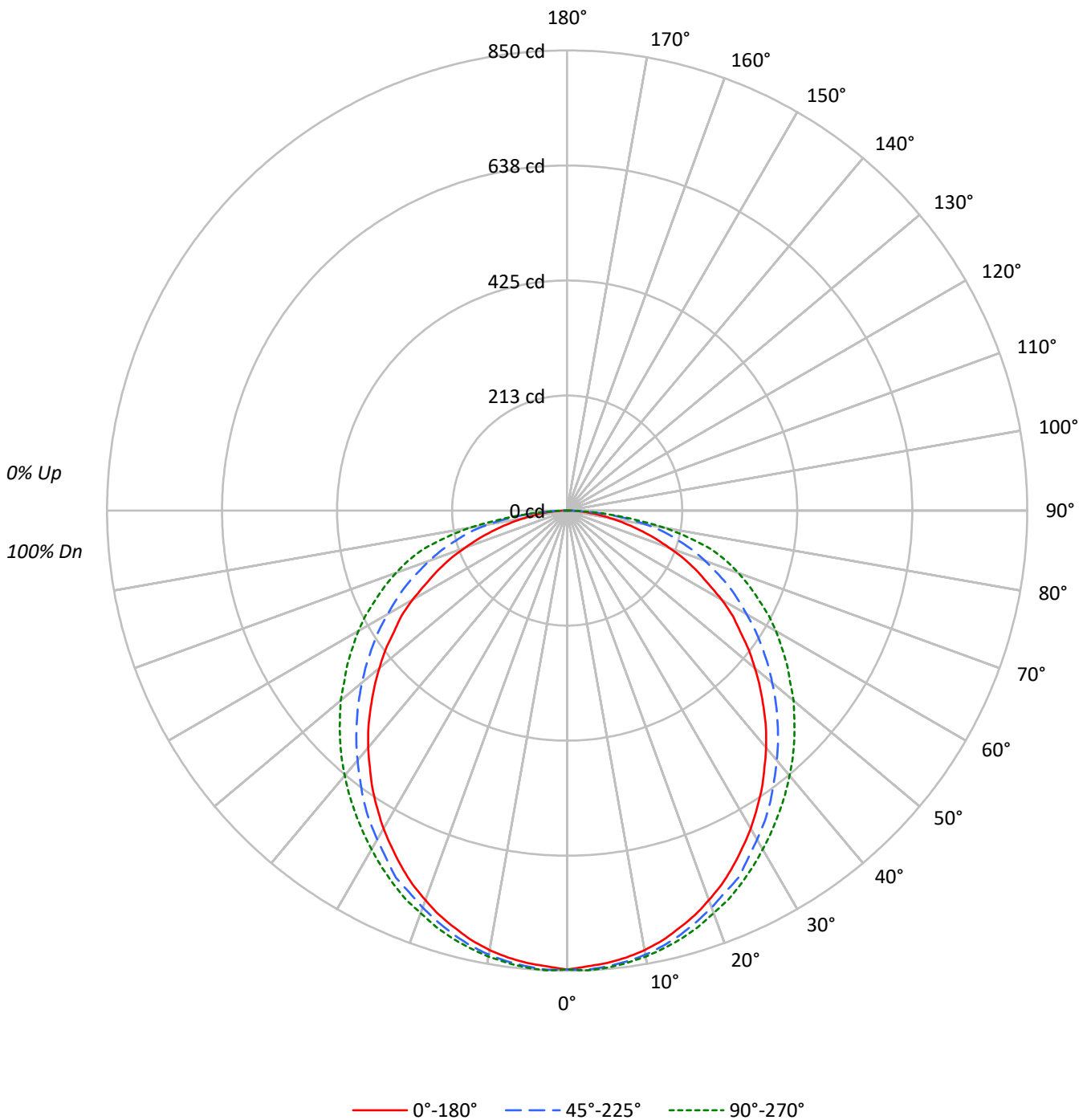
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2281	2281	2281
5°	2267	2283	2290
10°	2253	2276	2286
15°	2225	2259	2279
20°	2192	2234	2266
25°	2153	2222	2258
30°	2108	2180	2245
35°	2059	2152	2241
40°	2008	2116	2245
45°	1952	2092	2259
50°	1895	2070	2285
55°	1830	2061	2325
60°	1776	2060	2397
65°	1687	2094	2484
70°	1574	2133	2644
75°	1441	2206	2857
80°	1255	2300	2814
85°	1099	2044	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.2
10°-20°	228.3	9.2
20°-30°	342.8	13.7
30°-40°	409.6	16.4
40°-50°	425.9	17.1
50°-60°	394.8	15.8
60°-70°	323.8	13.0
70°-80°	218.9	8.8
80°-90°	68.8	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°	651.3	26.1
0°-40°	1060.9	42.6
0°-60°	1881.6	75.5
0°-90°	2493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	839	840	845	846	848	80
15°	799	802	811	816	818	225
25°	725	731	748	757	761	334
35°	627	635	655	675	682	392
45°	513	523	550	582	594	396
55°	390	402	439	478	496	351
65°	265	280	329	372	390	262
75°	139	162	212	255	275	147
85°	36	49	66	74	72	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.7	847.7	847.7	847.7	847.7
2.5°	842.8	845.2	848.9	850.1	850.1
5°	839.1	840.3	845.2	846.4	847.7
7.5°	832.9	835.4	840.3	841.5	842.8
10°	824.4	826.8	832.9	835.4	836.6
12.5°	813.3	815.8	823.1	826.8	828.0
15°	798.6	802.3	810.9	815.8	818.2
17.5°	783.9	787.6	796.1	803.5	806.0
20°	765.5	774.1	780.2	790.0	791.2
22.5°	747.1	752.0	763.0	772.8	777.7
25°	725.0	731.1	748.3	756.9	760.6
27.5°	701.7	710.3	723.8	737.3	742.2
30°	678.4	684.5	701.7	717.6	722.5
32.5°	652.6	661.2	679.6	695.6	702.9
35°	626.9	635.4	655.1	674.7	682.1
37.5°	598.6	608.5	628.1	651.4	661.2
40°	571.7	579.0	602.3	630.5	639.1
42.5°	543.4	552.0	576.6	607.2	617.0
45°	512.8	522.6	549.6	581.5	593.7
47.5°	483.3	493.1	522.6	554.5	569.2
50°	452.7	464.9	494.4	531.2	545.9
52.5°	423.2	434.3	467.4	505.4	518.9
55°	390.1	402.4	439.2	478.4	495.6
57.5°	363.1	371.7	412.2	452.7	469.8
60°	330.0	341.0	382.7	425.7	445.3
62.5°	294.4	312.8	355.7	399.9	419.5
65°	265.0	279.7	328.8	371.7	390.1
67.5°	234.3	250.3	298.1	343.5	364.3
70°	200.0	220.8	271.1	316.5	336.1
72.5°	169.3	191.4	242.9	287.1	307.9
75°	138.6	161.9	212.2	255.2	274.8
77.5°	109.2	134.9	184.0	217.1	229.4
80°	81.0	105.5	148.4	171.7	181.6
82.5°	56.4	77.3	109.2	121.4	123.9
85°	35.6	49.1	66.2	73.6	72.4
87.5°	15.9	19.6	24.5	27.0	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)