

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: P277227

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277227
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: 22CZ2-24HE-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

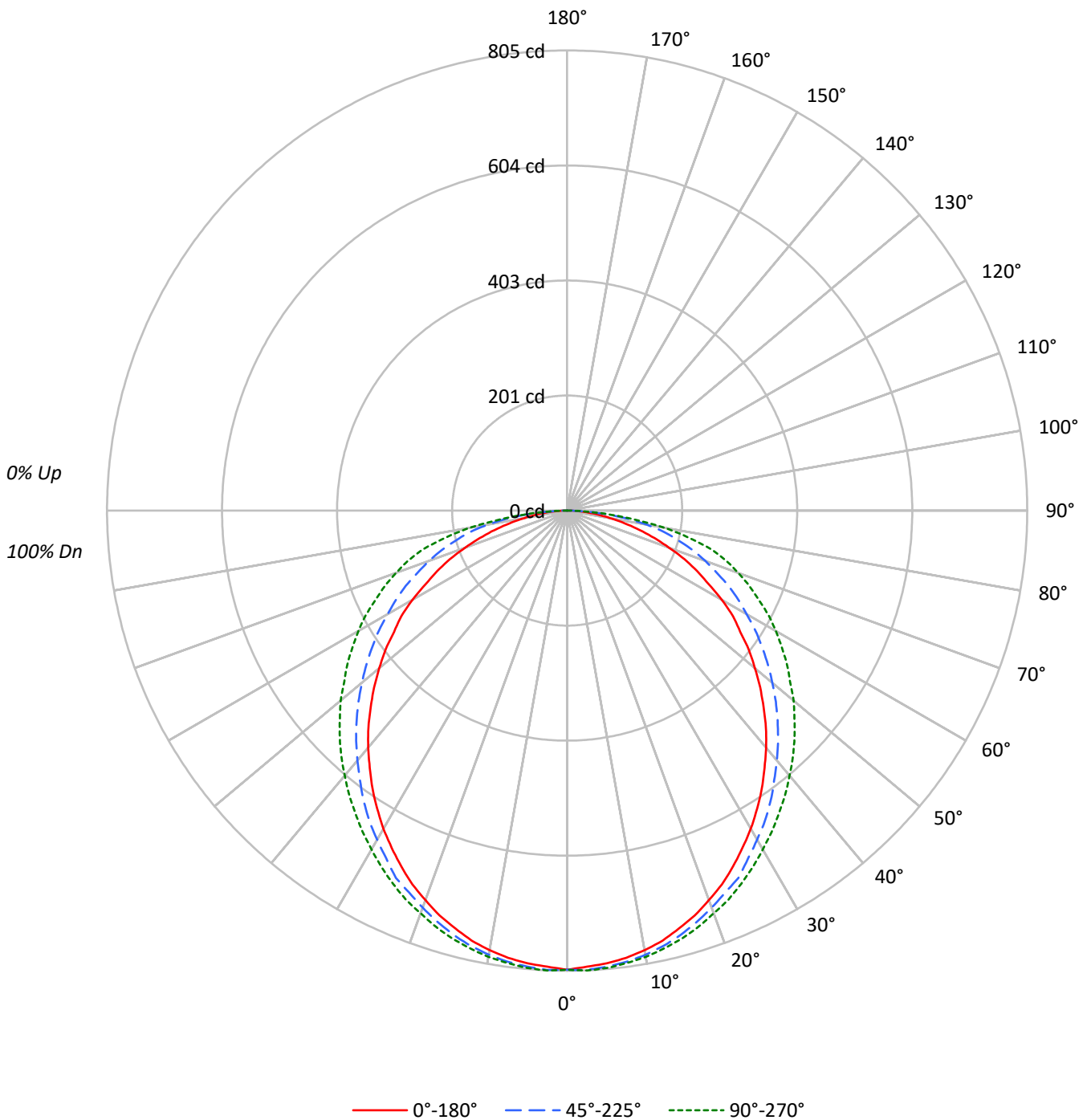
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2161	2161	2161
5°	2148	2163	2169
10°	2134	2156	2166
15°	2108	2140	2160
20°	2077	2117	2147
25°	2040	2105	2140
30°	1997	2066	2127
35°	1951	2039	2123
40°	1903	2005	2127
45°	1849	1982	2141
50°	1796	1961	2165
55°	1734	1952	2203
60°	1682	1951	2271
65°	1598	1983	2353
70°	1490	2021	2506
75°	1365	2091	2706
80°	1189	2179	2665
85°	1041	1939	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.2
10°-20°	216.3	9.2
20°-30°	324.8	13.7
30°-40°	388.1	16.4
40°-50°	403.5	17.1
50°-60°	374.0	15.8
60°-70°	306.8	13.0
70°-80°	207.4	8.8
80°-90°	65.2	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°	617.1	26.1
0°-40°	1005.1	42.6
0°-60°	1782.7	75.5
0°-90°	2362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	795	796	801	802	803	75
15°	757	760	768	773	775	213
25°	687	693	709	717	721	316
35°	594	602	621	639	646	371
45°	486	495	521	551	562	375
55°	370	381	416	453	470	332
65°	251	265	312	352	370	248
75°	131	153	201	242	260	139
85°	34	46	63	70	69	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.1	803.1	803.1	803.1	803.1
2.5°	798.5	800.8	804.3	805.4	805.4
5°	795.0	796.1	800.8	802.0	803.1
7.5°	789.2	791.5	796.1	797.3	798.5
10°	781.0	783.4	789.2	791.5	792.7
12.5°	770.6	772.9	779.9	783.4	784.5
15°	756.6	760.1	768.3	772.9	775.2
17.5°	742.7	746.2	754.3	761.3	763.6
20°	725.3	733.4	739.2	748.5	749.7
22.5°	707.8	712.5	722.9	732.2	736.9
25°	686.9	692.7	709.0	717.1	720.6
27.5°	664.8	673.0	685.7	698.5	703.2
30°	642.7	648.5	664.8	679.9	684.6
32.5°	618.3	626.5	643.9	659.0	666.0
35°	593.9	602.1	620.6	639.2	646.2
37.5°	567.2	576.5	595.1	617.2	626.5
40°	541.6	548.6	570.7	597.4	605.5
42.5°	514.9	523.0	546.3	575.3	584.6
45°	485.8	495.1	520.7	550.9	562.5
47.5°	457.9	467.2	495.1	525.3	539.3
50°	428.9	440.5	468.4	503.3	517.2
52.5°	401.0	411.4	442.8	478.9	491.6
55°	369.6	381.2	416.1	453.3	469.6
57.5°	344.0	352.2	390.5	428.9	445.1
60°	312.6	323.1	362.6	403.3	421.9
62.5°	278.9	296.4	337.1	378.9	397.5
65°	251.0	265.0	311.5	352.2	369.6
67.5°	222.0	237.1	282.4	325.4	345.2
70°	189.4	209.2	256.9	299.9	318.5
72.5°	160.4	181.3	230.1	272.0	291.7
75°	131.3	153.4	201.1	241.8	260.3
77.5°	103.4	127.8	174.3	205.7	217.3
80°	76.7	100.0	140.6	162.7	172.0
82.5°	53.5	73.2	103.4	115.1	117.4
85°	33.7	46.5	62.8	69.7	68.6
87.5°	15.1	18.6	23.2	25.6	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)