

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: P277225

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277225
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2308.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

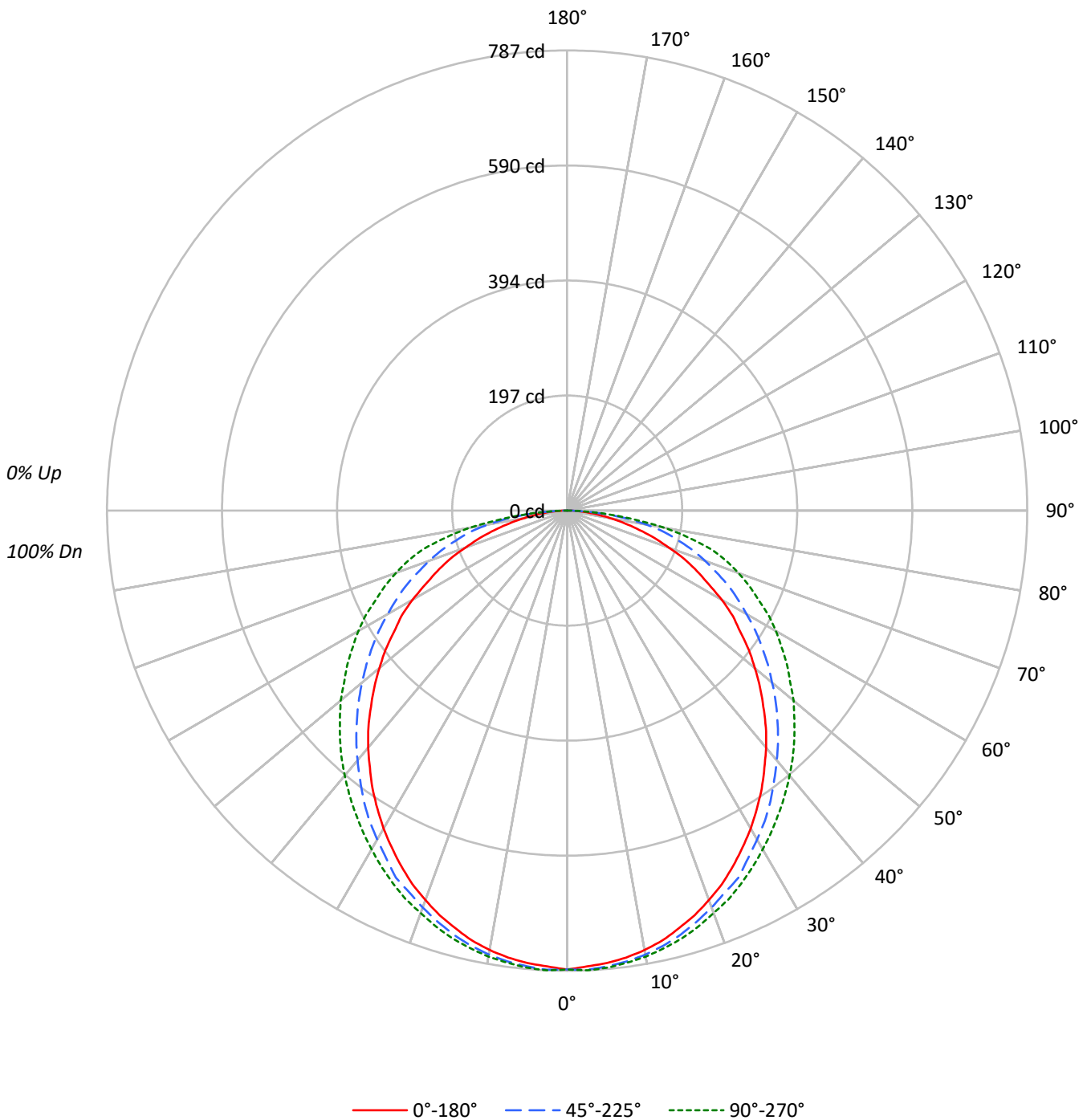
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2112	2112	2112
5°	2098	2114	2120
10°	2085	2107	2116
15°	2060	2091	2110
20°	2029	2068	2098
25°	1993	2057	2091
30°	1951	2018	2078
35°	1906	1992	2074
40°	1859	1959	2079
45°	1807	1936	2092
50°	1755	1916	2116
55°	1694	1908	2152
60°	1644	1907	2219
65°	1562	1938	2299
70°	1456	1975	2448
75°	1334	2043	2645
80°	1162	2129	2605
85°	1016	1893	2069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.2
10°-20°	211.4	9.2
20°-30°	317.3	13.7
30°-40°	379.2	16.4
40°-50°	394.3	17.1
50°-60°	365.5	15.8
60°-70°	299.8	13.0
70°-80°	202.7	8.8
80°-90°	63.7	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°	603.0	26.1
0°-40°	982.1	42.6
0°-60°	1741.9	75.5
0°-90°	2308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	777	778	782	784	785	74
15°	739	743	751	755	758	209
25°	671	677	693	701	704	309
35°	580	588	606	625	631	363
45°	475	484	509	538	550	367
55°	361	372	407	443	459	325
65°	245	259	304	344	361	242
75°	128	150	196	236	254	136
85°	33	45	61	68	67	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.8	784.8	784.8	784.8	784.8
2.5°	780.2	782.5	785.9	787.0	787.0
5°	776.8	777.9	782.5	783.6	784.8
7.5°	771.1	773.4	777.9	779.1	780.2
10°	763.2	765.5	771.1	773.4	774.5
12.5°	753.0	755.2	762.0	765.5	766.6
15°	739.3	742.7	750.7	755.2	757.5
17.5°	725.7	729.1	737.1	743.9	746.1
20°	708.7	716.6	722.3	731.4	732.5
22.5°	691.6	696.2	706.4	715.5	720.0
25°	671.2	676.9	692.8	700.7	704.1
27.5°	649.6	657.6	670.1	682.6	687.1
30°	628.0	633.7	649.6	664.4	668.9
32.5°	604.2	612.1	629.2	643.9	650.8
35°	580.3	588.3	606.5	624.6	631.4
37.5°	554.2	563.3	581.5	603.1	612.1
40°	529.2	536.0	557.6	583.7	591.7
42.5°	503.1	511.1	533.8	562.2	571.3
45°	474.7	483.8	508.8	538.3	549.7
47.5°	447.5	456.5	483.8	513.3	527.0
50°	419.1	430.4	457.7	491.8	505.4
52.5°	391.8	402.0	432.7	467.9	480.4
55°	361.1	372.5	406.6	442.9	458.8
57.5°	336.2	344.1	381.6	419.1	435.0
60°	305.5	315.7	354.3	394.1	412.3
62.5°	272.6	289.6	329.4	370.2	388.4
65°	245.3	258.9	304.4	344.1	361.1
67.5°	216.9	231.7	276.0	318.0	337.3
70°	185.1	204.4	251.0	293.0	311.2
72.5°	156.7	177.2	224.9	265.8	285.1
75°	128.3	149.9	196.5	236.2	254.4
77.5°	101.1	124.9	170.4	201.0	212.4
80°	75.0	97.7	137.4	159.0	168.1
82.5°	52.2	71.5	101.1	112.4	114.7
85°	32.9	45.4	61.3	68.1	67.0
87.5°	14.8	18.2	22.7	25.0	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)