

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: P277382

Luminaire Tested: **22CZ2-20HE-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277382
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: 22CZ2-20HE-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.0 lumens
Efficiency: N/A
Efficacy: 132.7 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

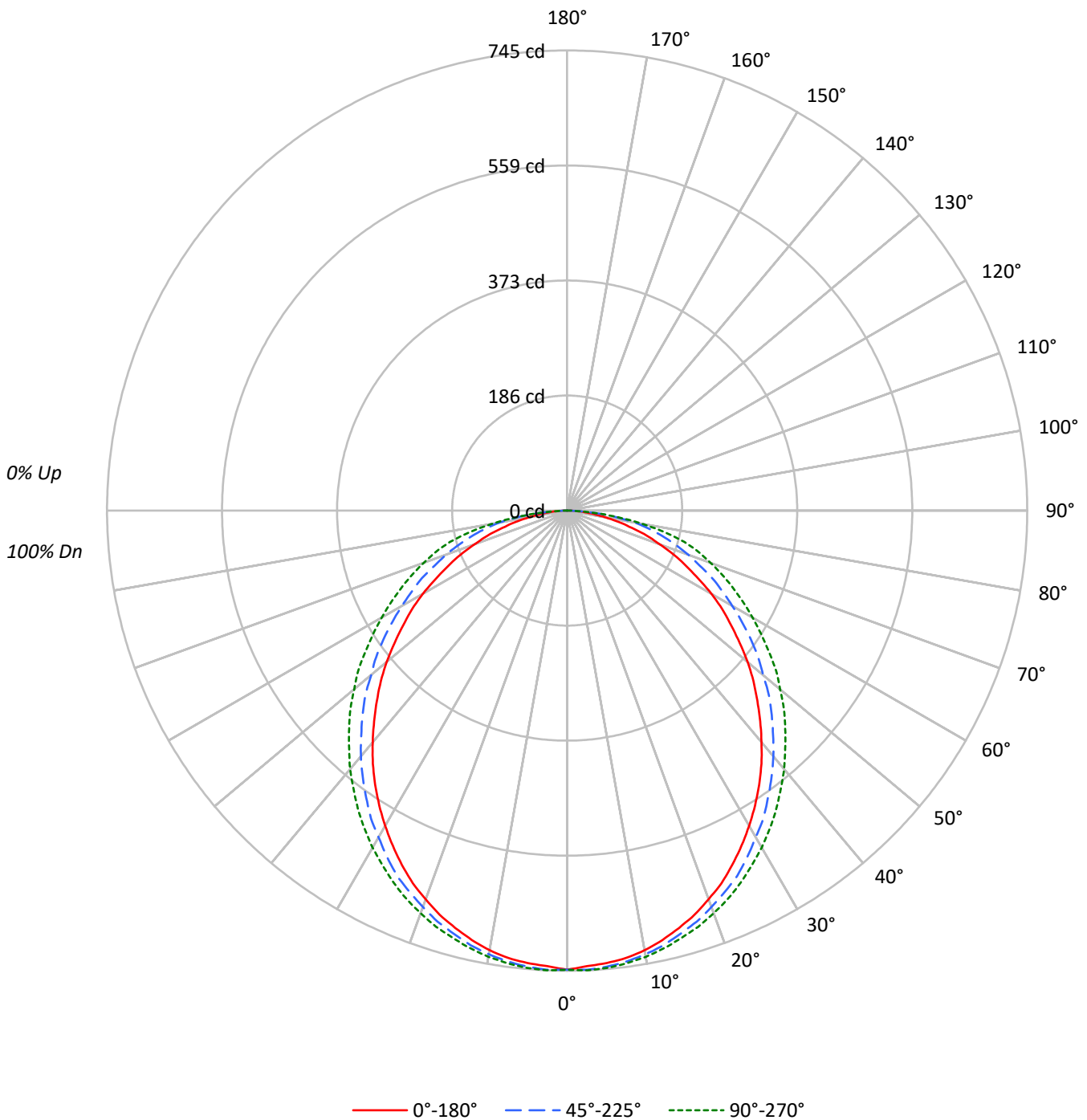
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2000	2000	2000
5°	1987	2002	2008
10°	1975	1994	2004
15°	1949	1976	1995
20°	1918	1956	1987
25°	1879	1936	1974
30°	1831	1897	1958
35°	1780	1863	1939
40°	1720	1825	1920
45°	1657	1783	1900
50°	1596	1734	1884
55°	1521	1703	1871
60°	1453	1661	1864
65°	1356	1651	1885
70°	1249	1637	1942
75°	1127	1660	2042
80°	975	1709	1920
85°	806	1433	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.4
10°-20°	200.0	9.6
20°-30°	299.3	14.4
30°-40°	354.4	17.1
40°-50°	361.2	17.4
50°-60°	323.7	15.6
60°-70°	253.4	12.2
70°-80°	163.4	7.9
80°-90°	48.3	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°	569.6	27.5
0°-40°	924.0	44.5
0°-60°	1608.8	77.6
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	735	737	741	742	743	70
15°	700	704	709	715	716	197
25°	633	639	652	661	665	291
35°	542	549	567	584	590	339
45°	436	445	468	492	499	336
55°	324	335	363	388	399	291
65°	213	226	259	284	296	211
75°	108	125	160	187	196	116
85°	26	36	46	46	46	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.2	743.2	743.2	743.2	743.2
2.5°	738.3	740.3	744.1	745.1	745.1
5°	735.4	737.4	741.2	742.2	743.2
7.5°	730.6	731.6	736.4	738.3	739.3
10°	722.9	724.8	729.6	732.5	733.5
12.5°	712.2	715.1	720.9	724.8	725.8
15°	699.6	703.5	709.3	715.1	716.1
17.5°	686.1	690.0	697.7	704.5	706.4
20°	669.6	674.5	683.2	690.9	693.8
22.5°	653.2	657.1	667.7	677.4	680.3
25°	632.9	638.7	652.2	660.9	664.8
27.5°	611.6	618.3	631.9	643.5	647.4
30°	589.3	596.1	610.6	625.1	630.0
32.5°	566.1	573.8	591.3	605.8	610.6
35°	541.9	548.7	567.1	584.5	590.3
37.5°	516.7	522.5	543.8	562.2	568.0
40°	489.6	497.4	519.6	540.9	546.7
42.5°	462.6	471.3	493.5	516.7	522.5
45°	435.5	445.1	468.4	492.5	499.3
47.5°	409.3	417.1	443.2	466.4	476.1
50°	381.3	389.0	414.2	440.3	450.0
52.5°	352.2	362.9	390.0	415.1	426.7
55°	324.2	334.8	362.9	388.0	398.7
57.5°	298.0	306.8	335.8	361.9	372.6
60°	270.0	277.7	308.7	336.8	346.4
62.5°	240.0	251.6	283.5	309.7	321.3
65°	212.9	225.5	259.3	284.5	296.1
67.5°	187.7	199.3	232.2	259.3	271.9
70°	158.7	174.2	208.1	235.1	246.8
72.5°	135.5	149.0	183.9	211.0	223.5
75°	108.4	124.8	159.7	186.8	196.4
77.5°	86.1	102.6	135.5	156.8	161.6
80°	62.9	79.3	110.3	121.0	123.9
82.5°	42.6	58.1	79.3	82.3	83.2
85°	26.1	35.8	46.4	46.4	46.4
87.5°	12.6	14.5	16.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)