

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: P277288

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277288
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2406.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

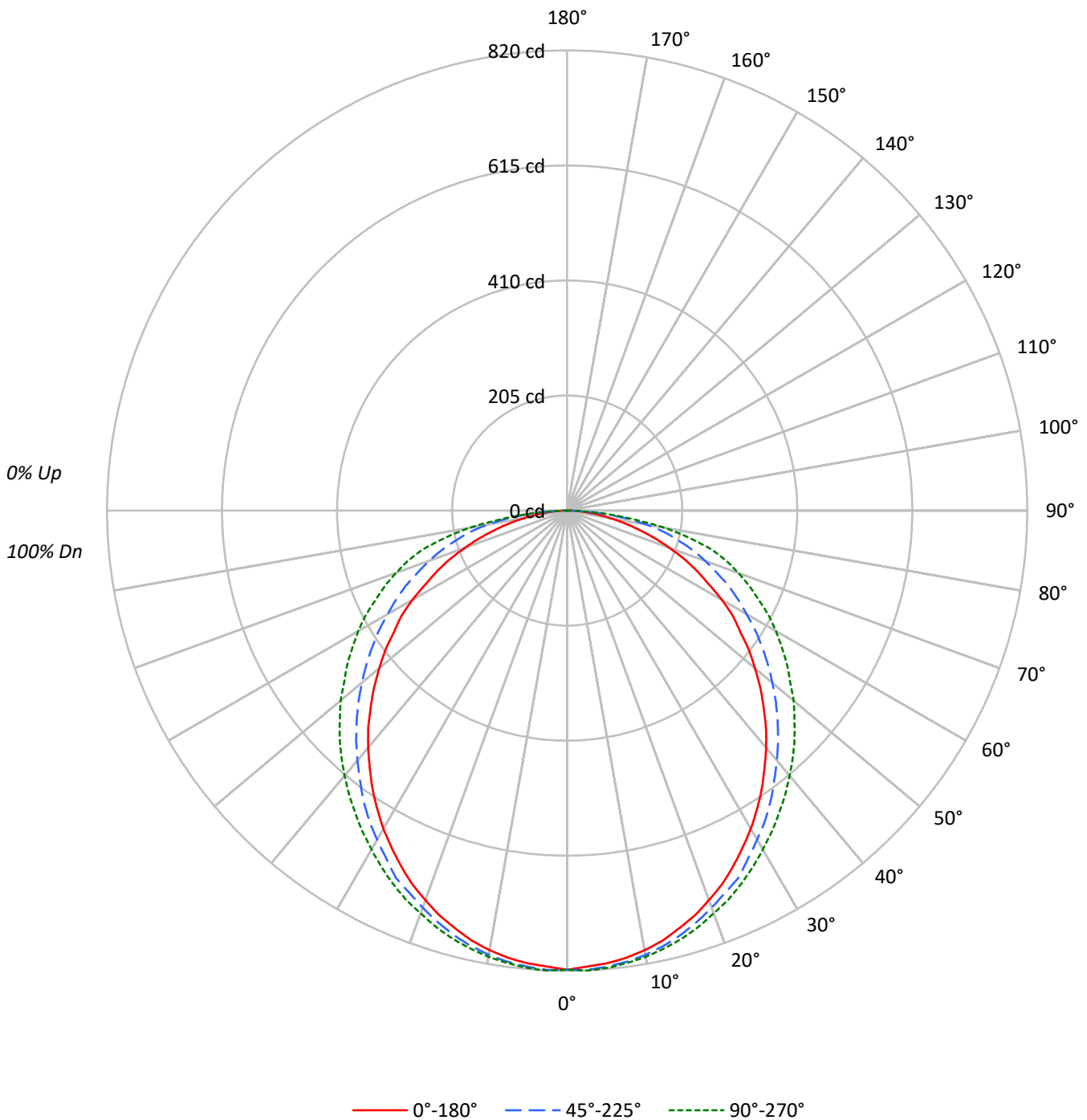
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2201	2201	2201
5°	2187	2203	2210
10°	2174	2197	2206
15°	2147	2180	2200
20°	2116	2156	2187
25°	2078	2144	2179
30°	2034	2104	2167
35°	1987	2077	2163
40°	1938	2042	2167
45°	1883	2019	2181
50°	1829	1997	2205
55°	1766	1988	2244
60°	1714	1988	2313
65°	1628	2020	2397
70°	1519	2058	2552
75°	1391	2129	2757
80°	1210	2221	2715
85°	1059	1973	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.2
10°-20°	220.4	9.2
20°-30°	330.8	13.7
30°-40°	395.3	16.4
40°-50°	411.0	17.1
50°-60°	381.0	15.8
60°-70°	312.5	13.0
70°-80°	211.2	8.8
80°-90°	66.4	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°	628.6	26.1
0°-40°	1023.9	42.6
0°-60°	1815.9	75.5
0°-90°	2406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	810	811	816	817	818	77
15°	771	774	783	787	790	217
25°	700	706	722	730	734	322
35°	605	613	632	651	658	378
45°	495	504	530	561	573	382
55°	376	388	424	462	478	338
65°	256	270	317	359	376	253
75°	134	156	205	246	265	142
85°	34	47	64	71	70	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.1	818.1	818.1	818.1	818.1
2.5°	813.3	815.7	819.3	820.5	820.5
5°	809.8	811.0	815.7	816.9	818.1
7.5°	803.9	806.2	811.0	812.2	813.3
10°	795.6	798.0	803.9	806.2	807.4
12.5°	784.9	787.3	794.4	798.0	799.1
15°	770.7	774.3	782.6	787.3	789.7
17.5°	756.5	760.1	768.4	775.5	777.8
20°	738.8	747.0	753.0	762.4	763.6
22.5°	721.0	725.7	736.4	745.9	750.6
25°	699.7	705.6	722.2	730.5	734.0
27.5°	677.2	685.5	698.5	711.5	716.3
30°	654.7	660.6	677.2	692.6	697.3
32.5°	629.8	638.1	655.9	671.3	678.4
35°	605.0	613.3	632.2	651.2	658.3
37.5°	577.7	587.2	606.2	628.7	638.1
40°	551.7	558.8	581.3	608.5	616.8
42.5°	524.5	532.8	556.4	586.0	595.5
45°	494.9	504.3	530.4	561.2	573.0
47.5°	466.5	475.9	504.3	535.1	549.3
50°	436.9	448.7	477.1	512.6	526.8
52.5°	408.5	419.1	451.1	487.8	500.8
55°	376.5	388.3	423.8	461.7	478.3
57.5°	350.4	358.7	397.8	436.9	453.4
60°	318.5	329.1	369.4	410.8	429.8
62.5°	284.1	301.9	343.3	386.0	404.9
65°	255.7	269.9	317.3	358.7	376.5
67.5°	226.1	241.5	287.7	331.5	351.6
70°	193.0	213.1	261.6	305.4	324.4
72.5°	163.4	184.7	234.4	277.0	297.2
75°	133.8	156.3	204.8	246.3	265.2
77.5°	105.4	130.2	177.6	209.6	221.4
80°	78.1	101.8	143.3	165.7	175.2
82.5°	54.5	74.6	105.4	117.2	119.6
85°	34.3	47.4	63.9	71.0	69.9
87.5°	15.4	18.9	23.7	26.0	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)