

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: P277283

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277283
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-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

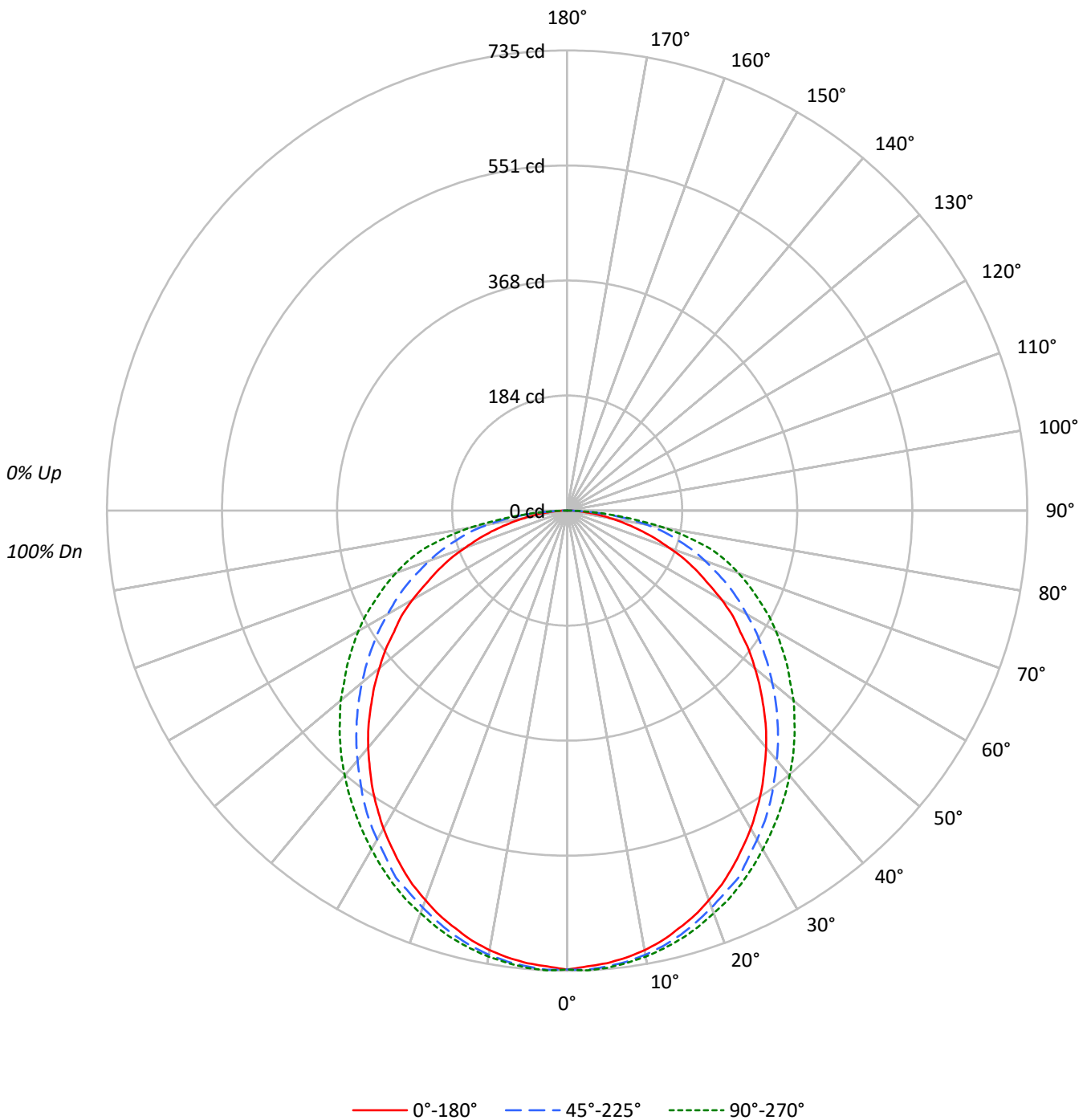
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1973	1973	1973
5°	1960	1975	1980
10°	1948	1968	1977
15°	1924	1954	1971
20°	1896	1932	1960
25°	1862	1921	1953
30°	1823	1885	1942
35°	1781	1861	1938
40°	1737	1830	1942
45°	1688	1809	1954
50°	1639	1790	1976
55°	1583	1782	2011
60°	1536	1781	2073
65°	1459	1810	2148
70°	1360	1845	2287
75°	1247	1908	2470
80°	1085	1990	2433
85°	951	1769	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.2
10°-20°	197.5	9.2
20°-30°	296.4	13.7
30°-40°	354.2	16.4
40°-50°	368.3	17.1
50°-60°	341.4	15.8
60°-70°	280.0	13.0
70°-80°	189.3	8.8
80°-90°	59.5	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°	563.2	26.1
0°-40°	917.5	42.6
0°-60°	1627.2	75.5
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	726	727	731	732	733	69
15°	691	694	701	706	708	195
25°	627	632	647	655	658	289
35°	542	550	566	584	590	339
45°	444	452	475	503	514	342
55°	337	348	380	414	429	303
65°	229	242	284	322	337	227
75°	120	140	184	221	238	127
85°	31	42	57	64	63	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.1	733.1	733.1	733.1	733.1
2.5°	728.8	731.0	734.1	735.2	735.2
5°	725.7	726.7	731.0	732.0	733.1
7.5°	720.3	722.5	726.7	727.8	728.8
10°	712.9	715.0	720.3	722.5	723.5
12.5°	703.4	705.5	711.9	715.0	716.1
15°	690.6	693.8	701.3	705.5	707.6
17.5°	677.9	681.1	688.5	694.9	697.0
20°	662.0	669.4	674.7	683.2	684.3
22.5°	646.1	650.3	659.9	668.4	672.6
25°	627.0	632.3	647.1	654.6	657.8
27.5°	606.8	614.3	625.9	637.6	641.8
30°	586.7	592.0	606.8	620.6	624.9
32.5°	564.4	571.8	587.7	601.5	607.9
35°	542.1	549.5	566.5	583.5	589.9
37.5°	517.7	526.2	543.2	563.3	571.8
40°	494.4	500.7	520.9	545.3	552.7
42.5°	470.0	477.4	498.6	525.1	533.6
45°	443.5	451.9	475.3	502.9	513.5
47.5°	418.0	426.5	451.9	479.5	492.3
50°	391.5	402.1	427.5	459.4	472.1
52.5°	366.0	375.6	404.2	437.1	448.8
55°	337.4	348.0	379.8	413.7	428.6
57.5°	314.0	321.5	356.5	391.5	406.3
60°	285.4	294.9	331.0	368.1	385.1
62.5°	254.6	270.5	307.7	345.9	362.8
65°	229.2	241.9	284.3	321.5	337.4
67.5°	202.6	216.4	257.8	297.1	315.1
70°	172.9	191.0	234.5	273.7	290.7
72.5°	146.4	165.5	210.1	248.2	266.3
75°	119.9	140.0	183.5	220.7	237.6
77.5°	94.4	116.7	159.1	187.8	198.4
80°	70.0	91.2	128.4	148.5	157.0
82.5°	48.8	66.8	94.4	105.0	107.2
85°	30.8	42.4	57.3	63.7	62.6
87.5°	13.8	17.0	21.2	23.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)