

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: P277638

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

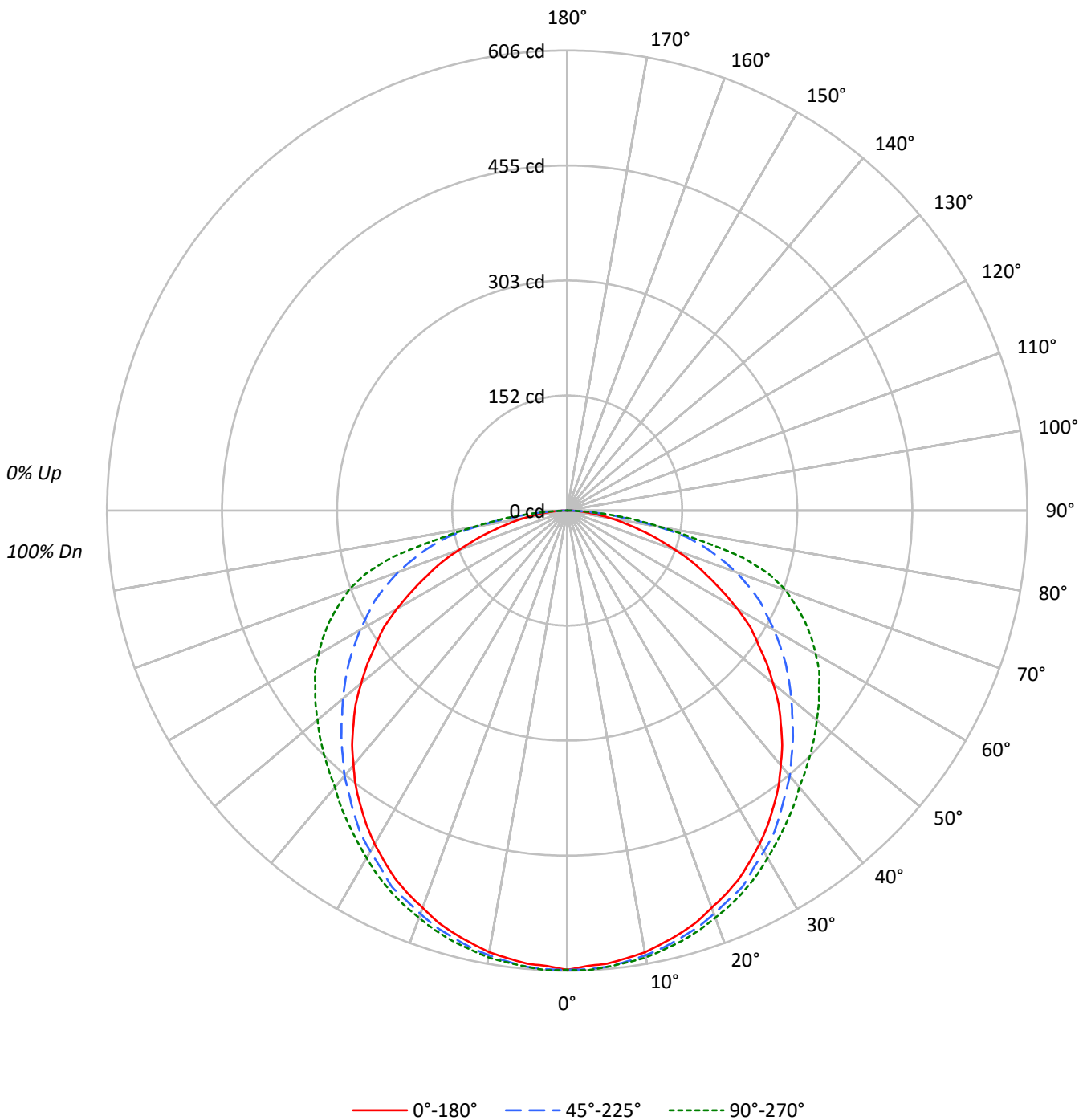
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1627	1627	1627
5°	1618	1630	1630
10°	1614	1625	1633
15°	1606	1621	1633
20°	1594	1618	1634
25°	1589	1623	1640
30°	1575	1611	1641
35°	1558	1605	1651
40°	1537	1602	1671
45°	1514	1601	1725
50°	1482	1613	1796
55°	1442	1648	1900
60°	1394	1692	2035
65°	1298	1777	2200
70°	1192	1861	2407
75°	1045	1958	2488
80°	900	1866	1953
85°	787	1355	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.0
10°-20°	164.2	8.5
20°-30°	250.6	13.0
30°-40°	305.9	15.9
40°-50°	327.1	17.0
50°-60°	315.7	16.4
60°-70°	271.8	14.1
70°-80°	183.9	9.6
80°-90°	48.5	2.5
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°	472.0	24.5
0°-40°	777.9	40.4
0°-60°	1420.8	73.8
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	599	600	603	603	603	57
15°	576	578	582	585	586	163
25°	535	538	547	549	552	246
35°	474	479	489	498	503	297
45°	398	405	421	442	453	307
55°	307	317	351	387	405	275
65°	204	224	279	323	346	203
75°	100	133	188	227	239	108
85°	26	35	44	45	48	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.7	604.7	604.7	604.7	604.7
2.5°	600.4	601.8	604.7	604.7	606.1
5°	599.0	600.4	603.3	603.3	603.3
7.5°	594.8	596.2	599.0	600.4	600.4
10°	590.5	591.9	594.8	596.2	597.6
12.5°	583.4	584.9	589.1	591.9	591.9
15°	576.4	577.8	582.0	584.9	586.3
17.5°	567.9	570.7	574.9	577.8	579.2
20°	556.5	559.4	565.0	569.3	570.7
22.5°	546.6	549.4	555.1	559.4	562.2
25°	535.3	538.1	546.6	549.4	552.3
27.5°	521.1	524.0	531.0	536.7	541.0
30°	507.0	509.8	518.3	525.4	528.2
32.5°	491.4	495.6	505.5	511.2	515.5
35°	474.4	478.6	488.6	498.5	502.7
37.5°	457.4	461.6	471.6	484.3	490.0
40°	437.6	443.2	456.0	473.0	475.8
42.5°	419.2	426.2	437.6	457.4	464.5
45°	397.9	405.0	420.6	441.8	453.2
47.5°	378.1	385.2	402.2	427.7	441.8
50°	354.0	363.9	385.2	414.9	429.1
52.5°	331.4	339.9	368.2	400.8	417.8
55°	307.3	317.2	351.2	386.6	405.0
57.5°	286.1	294.5	332.8	372.4	393.7
60°	259.1	270.5	314.4	356.9	378.1
62.5°	230.8	247.8	296.0	339.9	362.5
65°	203.9	223.7	279.0	322.9	345.5
67.5°	179.8	201.1	257.7	304.5	325.7
70°	151.5	178.4	236.5	281.8	305.9
72.5°	126.0	155.8	212.4	257.7	279.0
75°	100.5	133.1	188.3	226.6	239.3
77.5°	77.9	109.0	161.4	172.8	174.2
80°	58.1	86.4	120.4	121.8	126.0
82.5°	39.7	60.9	77.9	85.0	86.4
85°	25.5	35.4	43.9	45.3	48.1
87.5°	11.3	12.7	15.6	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)