

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: P277628

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277628
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: 22CZ2-29HE-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.0 lumens
Efficiency: N/A
Efficacy: 77.5 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

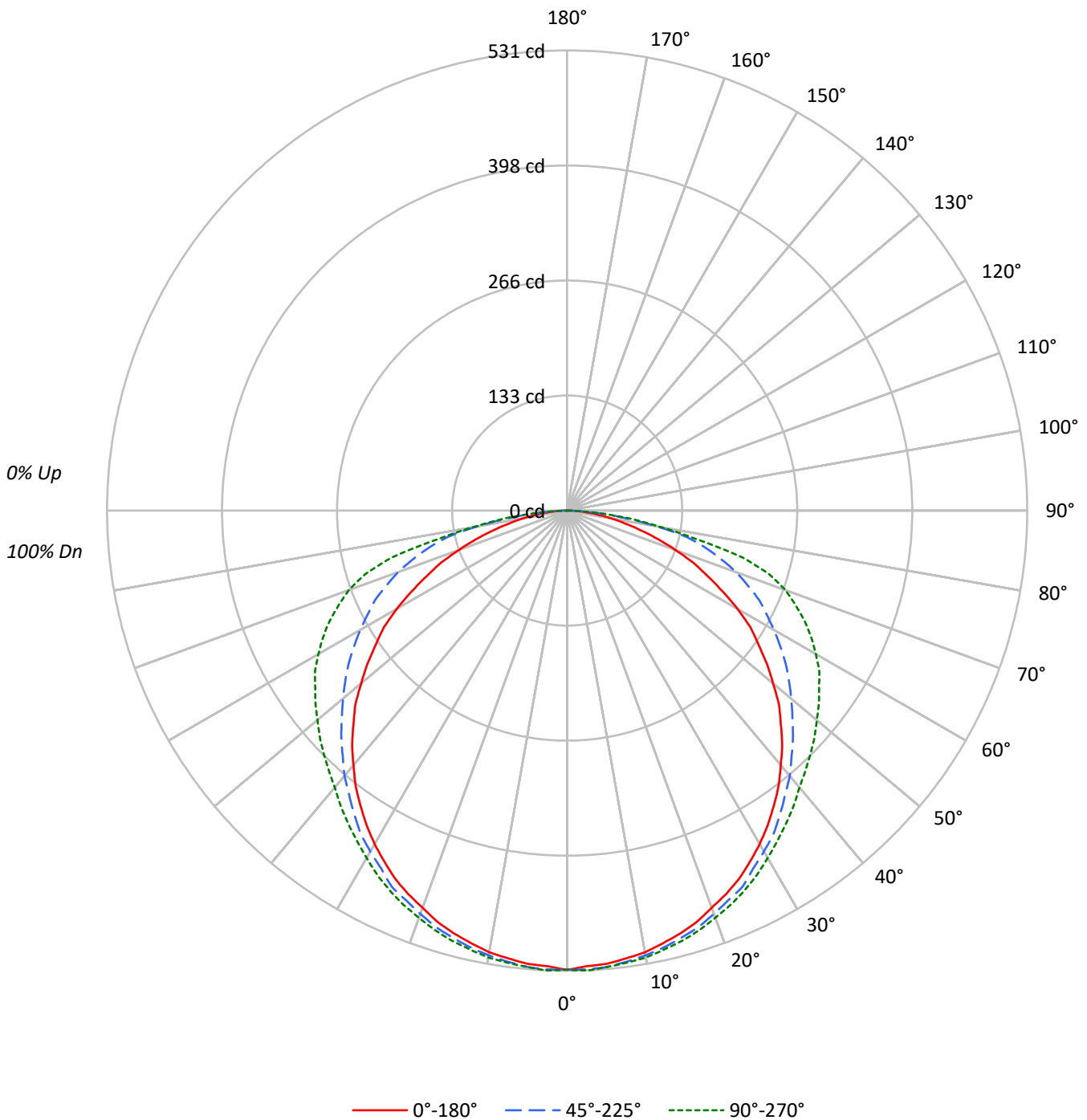
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1426	1426	1426
5°	1418	1428	1428
10°	1414	1424	1431
15°	1407	1421	1431
20°	1397	1418	1432
25°	1393	1422	1437
30°	1381	1411	1438
35°	1366	1407	1447
40°	1347	1404	1465
45°	1327	1403	1511
50°	1299	1413	1574
55°	1263	1444	1665
60°	1222	1483	1784
65°	1138	1557	1928
70°	1045	1631	2109
75°	916	1717	2180
80°	789	1635	1712
85°	689	1189	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.0
10°-20°	143.9	8.5
20°-30°	219.6	13.0
30°-40°	268.1	15.9
40°-50°	286.7	17.0
50°-60°	276.7	16.4
60°-70°	238.2	14.1
70°-80°	161.2	9.6
80°-90°	42.5	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°	413.6	24.5
0°-40°	681.7	40.4
0°-60°	1245.1	73.8
0°-90°	1687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	525	526	529	529	529	50
15°	505	506	510	512	514	142
25°	469	472	479	482	484	216
35°	416	420	428	437	441	260
45°	349	355	369	387	397	269
55°	269	278	308	339	355	241
65°	179	196	244	283	303	178
75°	88	117	165	199	210	95
85°	22	31	38	40	42	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	526.2	527.4	529.9	529.9	531.2
5°	525.0	526.2	528.7	528.7	528.7
7.5°	521.2	522.5	525.0	526.2	526.2
10°	517.5	518.7	521.2	522.5	523.7
12.5°	511.3	512.5	516.3	518.7	518.7
15°	505.1	506.3	510.1	512.5	513.8
17.5°	497.6	500.1	503.9	506.3	507.6
20°	487.7	490.2	495.2	498.9	500.1
22.5°	479.0	481.5	486.5	490.2	492.7
25°	469.1	471.6	479.0	481.5	484.0
27.5°	456.7	459.2	465.4	470.3	474.1
30°	444.3	446.8	454.2	460.4	462.9
32.5°	430.6	434.4	443.0	448.0	451.7
35°	415.7	419.5	428.2	436.8	440.6
37.5°	400.8	404.6	413.3	424.4	429.4
40°	383.5	388.4	399.6	414.5	417.0
42.5°	367.3	373.5	383.5	400.8	407.1
45°	348.7	354.9	368.6	387.2	397.1
47.5°	331.4	337.6	352.5	374.8	387.2
50°	310.3	318.9	337.6	363.6	376.0
52.5°	290.4	297.8	322.7	351.2	366.1
55°	269.3	278.0	307.8	338.8	354.9
57.5°	250.7	258.1	291.6	326.4	345.0
60°	227.1	237.0	275.5	312.7	331.4
62.5°	202.3	217.2	259.4	297.8	317.7
65°	178.7	196.1	244.5	283.0	302.8
67.5°	157.6	176.2	225.9	266.8	285.4
70°	132.8	156.4	207.3	247.0	268.1
72.5°	110.5	136.5	186.2	225.9	244.5
75°	88.1	116.7	165.1	198.6	209.7
77.5°	68.3	95.6	141.5	151.4	152.6
80°	50.9	75.7	105.5	106.7	110.5
82.5°	34.7	53.4	68.3	74.5	75.7
85°	22.3	31.0	38.5	39.7	42.2
87.5°	9.9	11.2	13.7	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)