

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: P277533

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277533  
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: 22CZ2-34HE-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1667.0 lumens  
Efficiency: N/A  
Efficacy: 63.5 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

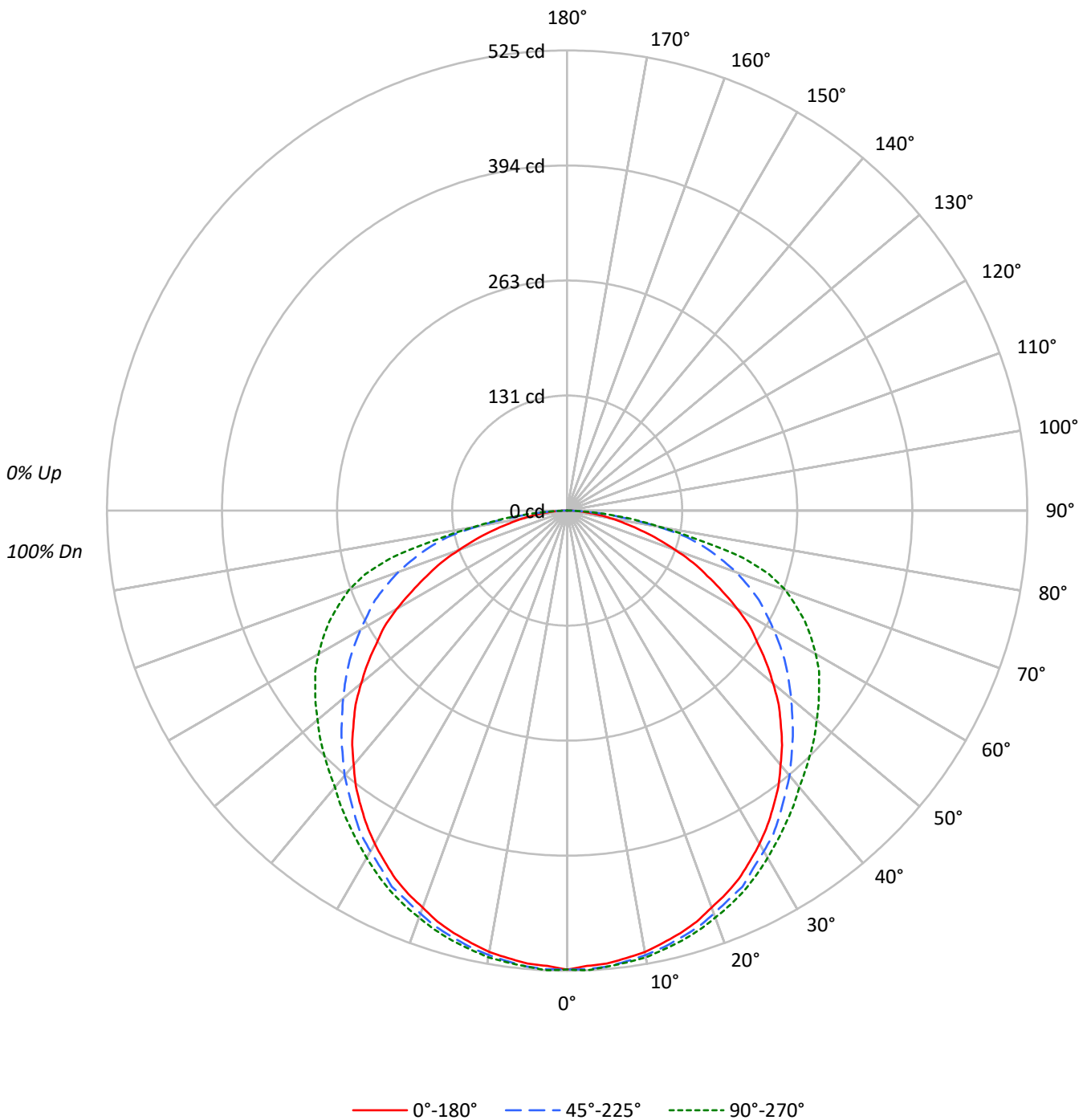
Input Watts (W): 26.258364  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1409	1409	1409
5°	1401	1411	1411
10°	1397	1407	1414
15°	1390	1404	1414
20°	1380	1401	1415
25°	1376	1406	1420
30°	1364	1395	1421
35°	1350	1390	1430
40°	1331	1387	1447
45°	1311	1386	1493
50°	1284	1397	1556
55°	1248	1427	1645
60°	1208	1465	1762
65°	1124	1538	1905
70°	1032	1611	2084
75°	906	1696	2154
80°	779	1615	1691
85°	682	1173	1288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	3.0
10°-20°	142.2	8.5
20°-30°	217.0	13.0
30°-40°	264.9	15.9
40°-50°	283.3	17.0
50°-60°	273.4	16.4
60°-70°	235.4	14.1
70°-80°	159.2	9.6
80°-90°	42.0	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°	408.7	24.5
0°-40°	673.7	40.4
0°-60°	1230.4	73.8
0°-90°	1667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	519	520	522	522	522	49
15°	499	500	504	506	508	141
25°	464	466	473	476	478	213
35°	411	414	423	432	435	257
45°	345	351	364	383	392	266
55°	266	275	304	335	351	238
65°	177	194	242	280	299	176
75°	87	115	163	196	207	93
85°	22	31	38	39	42	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.6	523.6	523.6	523.6	523.6
2.5°	520.0	521.2	523.6	523.6	524.9
5°	518.7	520.0	522.4	522.4	522.4
7.5°	515.0	516.3	518.7	520.0	520.0
10°	511.4	512.6	515.0	516.3	517.5
12.5°	505.2	506.5	510.1	512.6	512.6
15°	499.1	500.3	504.0	506.5	507.7
17.5°	491.7	494.2	497.9	500.3	501.6
20°	481.9	484.4	489.3	493.0	494.2
22.5°	473.4	475.8	480.7	484.4	486.8
25°	463.5	466.0	473.4	475.8	478.3
27.5°	451.3	453.7	459.9	464.8	468.4
30°	439.0	441.5	448.8	455.0	457.4
32.5°	425.5	429.2	437.8	442.7	446.4
35°	410.8	414.5	423.1	431.7	435.3
37.5°	396.1	399.8	408.4	419.4	424.3
40°	378.9	383.8	394.9	409.6	412.0
42.5°	363.0	369.1	378.9	396.1	402.2
45°	344.6	350.7	364.2	382.6	392.4
47.5°	327.4	333.6	348.3	370.3	382.6
50°	306.6	315.2	333.6	359.3	371.6
52.5°	287.0	294.3	318.8	347.0	361.8
55°	266.1	274.7	304.1	334.8	350.7
57.5°	247.7	255.1	288.2	322.5	340.9
60°	224.4	234.2	272.2	309.0	327.4
62.5°	199.9	214.6	256.3	294.3	313.9
65°	176.6	193.8	241.6	279.6	299.2
67.5°	155.7	174.1	223.2	263.7	282.1
70°	131.2	154.5	204.8	244.0	264.9
72.5°	109.1	134.9	183.9	223.2	241.6
75°	87.1	115.3	163.1	196.2	207.2
77.5°	67.4	94.4	139.8	149.6	150.8
80°	50.3	74.8	104.2	105.5	109.1
82.5°	34.3	52.7	67.4	73.6	74.8
85°	22.1	30.7	38.0	39.2	41.7
87.5°	9.8	11.0	13.5	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)