

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: P277026

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35HE-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1754.8 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

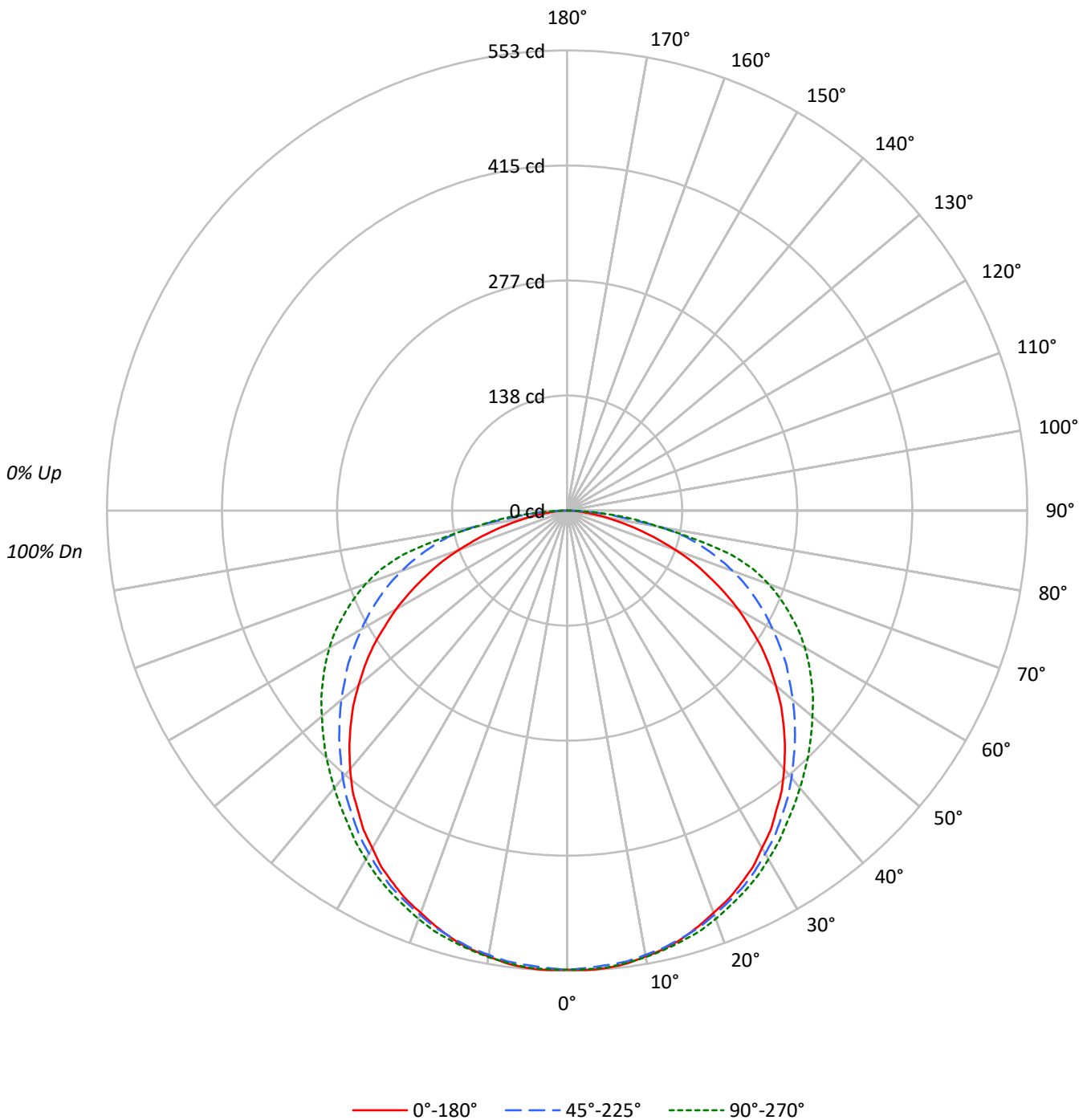
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	742	742	742
5°	745	741	744
10°	743	741	744
15°	742	741	746
20°	737	740	748
25°	734	742	749
30°	728	740	752
35°	721	738	755
40°	712	737	764
45°	701	737	782
50°	685	741	805
55°	668	753	841
60°	639	768	888
65°	599	795	942
70°	544	832	1013
75°	462	878	1059
80°	364	883	856
85°	269	672	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	3.0
10°-20°	150.7	8.6
20°-30°	230.4	13.1
30°-40°	281.6	16.0
40°-50°	300.2	17.1
50°-60°	287.0	16.4
60°-70°	243.1	13.9
70°-80°	163.4	9.3
80°-90°	46.1	2.6
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°	433.4	24.7
0°-40°	715.0	40.7
0°-60°	1302.2	74.2
0°-90°	1754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	552	551	548	551	551	52
15°	533	533	532	536	535	150
25°	494	496	500	504	505	228
35°	439	442	449	458	460	275
45°	368	374	387	404	411	284
55°	285	295	321	346	359	253
65°	188	207	250	283	296	187
75°	89	121	169	198	204	95
85°	17	36	44	47	49	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	551.8	551.8	551.8	551.8	551.8
2.5°	552.7	552.7	550.1	551.8	551.8
5°	551.8	551.0	548.3	551.0	551.0
7.5°	549.2	548.3	546.6	549.2	548.3
10°	544.0	544.0	542.2	544.9	544.9
12.5°	539.6	538.8	537.9	541.4	540.5
15°	532.7	532.7	531.8	536.2	535.3
17.5°	524.0	524.8	525.7	529.2	530.1
20°	514.4	516.1	517.0	522.2	522.2
22.5°	505.7	506.6	508.3	513.5	513.5
25°	494.4	496.1	499.6	504.0	504.8
27.5°	483.1	483.9	488.3	494.4	495.2
30°	468.3	470.9	476.1	483.1	483.9
32.5°	455.2	457.8	463.9	470.9	472.6
35°	438.7	442.2	449.1	457.8	459.6
37.5°	423.9	426.5	435.2	444.8	447.4
40°	405.6	410.8	419.5	430.8	435.2
42.5°	387.3	392.5	403.0	417.8	423.0
45°	368.2	374.3	387.3	403.9	410.8
47.5°	349.0	356.0	370.8	389.9	397.8
50°	327.3	336.0	354.2	376.0	384.7
52.5°	306.4	316.8	336.8	361.2	372.5
55°	284.6	295.1	321.2	346.4	358.6
57.5°	260.2	274.2	302.9	331.6	344.7
60°	237.6	250.7	285.5	316.8	329.9
62.5°	213.2	230.7	268.1	301.2	314.2
65°	188.0	207.2	249.8	282.9	295.9
67.5°	165.4	186.3	231.5	264.6	277.7
70°	138.4	164.5	211.5	244.6	257.6
72.5°	113.1	141.9	190.6	222.8	235.0
75°	88.8	121.0	168.9	197.6	203.7
77.5°	66.1	100.1	146.2	158.4	154.1
80°	47.0	80.1	114.0	107.9	110.5
82.5°	30.5	60.9	70.5	80.1	82.7
85°	17.4	35.7	43.5	47.0	48.7
87.5°	7.8	13.1	17.4	17.4	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)