

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: P276897

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276897  
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-L82765-W2A1-U-5500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2328.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

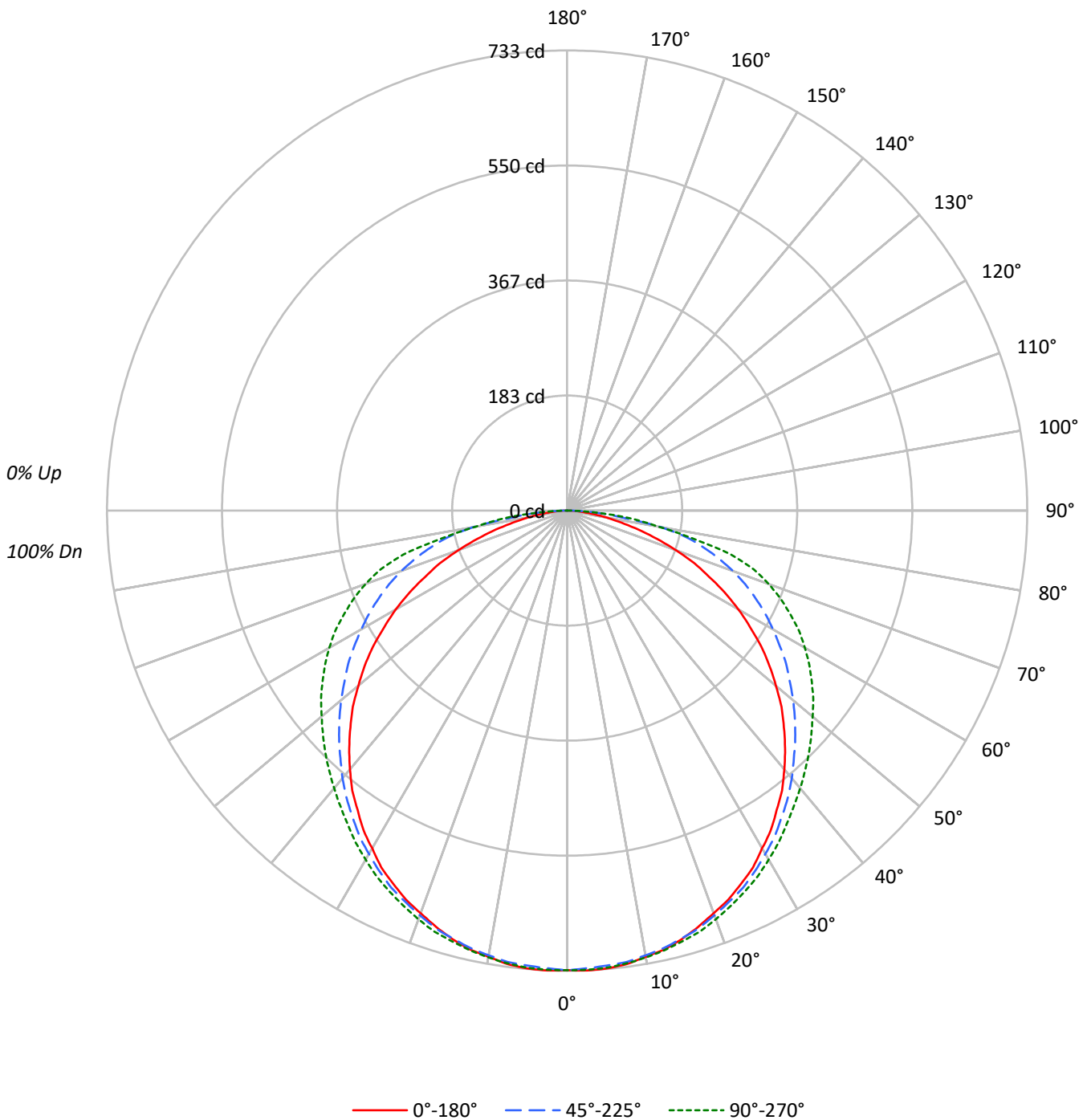
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	985	985	985
5°	989	983	987
10°	986	983	988
15°	984	983	989
20°	977	982	992
25°	974	984	994
30°	965	981	997
35°	956	979	1001
40°	945	978	1014
45°	929	978	1037
50°	909	984	1068
55°	886	1000	1116
60°	848	1019	1178
65°	794	1055	1250
70°	722	1104	1345
75°	612	1164	1405
80°	483	1172	1137
85°	357	891	999



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.0
10°-20°	199.9	8.6
20°-30°	305.6	13.1
30°-40°	373.6	16.0
40°-50°	398.2	17.1
50°-60°	380.8	16.4
60°-70°	322.5	13.9
70°-80°	216.8	9.3
80°-90°	61.1	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°	574.9	24.7
0°-40°	948.6	40.7
0°-60°	1727.6	74.2
0°-90°	2328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	732	731	728	731	731	70
15°	707	707	706	711	710	199
25°	656	658	663	669	670	302
35°	582	587	596	607	610	365
45°	488	496	514	536	545	377
55°	378	392	426	460	476	336
65°	249	275	331	375	393	248
75°	118	160	224	262	270	126
85°	23	47	58	62	65	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	732.1	732.1	732.1	732.1	732.1
2.5°	733.3	733.3	729.8	732.1	732.1
5°	732.1	730.9	727.5	730.9	730.9
7.5°	728.6	727.5	725.2	728.6	727.5
10°	721.7	721.7	719.4	722.9	722.9
12.5°	715.9	714.8	713.6	718.2	717.1
15°	706.7	706.7	705.5	711.3	710.2
17.5°	695.1	696.3	697.5	702.1	703.2
20°	682.4	684.8	685.9	692.8	692.8
22.5°	670.9	672.0	674.4	681.3	681.3
25°	655.9	658.2	662.8	668.6	669.7
27.5°	640.9	642.0	647.8	655.9	657.0
30°	621.2	624.7	631.6	640.9	642.0
32.5°	603.9	607.4	615.5	624.7	627.0
35°	582.0	586.6	595.8	607.4	609.7
37.5°	562.4	565.8	577.4	590.1	593.5
40°	538.1	545.0	556.6	571.6	577.4
42.5°	513.9	520.8	534.6	554.3	561.2
45°	488.4	496.5	513.9	535.8	545.0
47.5°	463.0	472.3	491.9	517.3	527.7
50°	434.2	445.7	470.0	498.8	510.4
52.5°	406.5	420.3	446.9	479.2	494.2
55°	377.6	391.5	426.1	459.6	475.7
57.5°	345.3	363.7	401.8	440.0	457.3
60°	315.2	332.6	378.7	420.3	437.6
62.5°	282.9	306.0	355.7	399.5	416.9
65°	249.4	274.8	331.4	375.3	392.6
67.5°	219.4	247.1	307.2	351.0	368.4
70°	183.6	218.2	280.6	324.5	341.8
72.5°	150.1	188.2	252.9	295.6	311.8
75°	117.8	160.5	224.0	262.1	270.2
77.5°	87.8	132.8	194.0	210.2	204.4
80°	62.4	106.2	151.3	143.2	146.7
82.5°	40.4	80.8	93.5	106.2	109.7
85°	23.1	47.3	57.7	62.4	64.7
87.5°	10.4	17.3	23.1	23.1	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)