

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: P276862

Luminaire Tested: **24CZ2-35-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276862
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: 24CZ2-35-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 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: 1760.7 lumens
Efficiency: N/A
Efficacy: 66.1 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

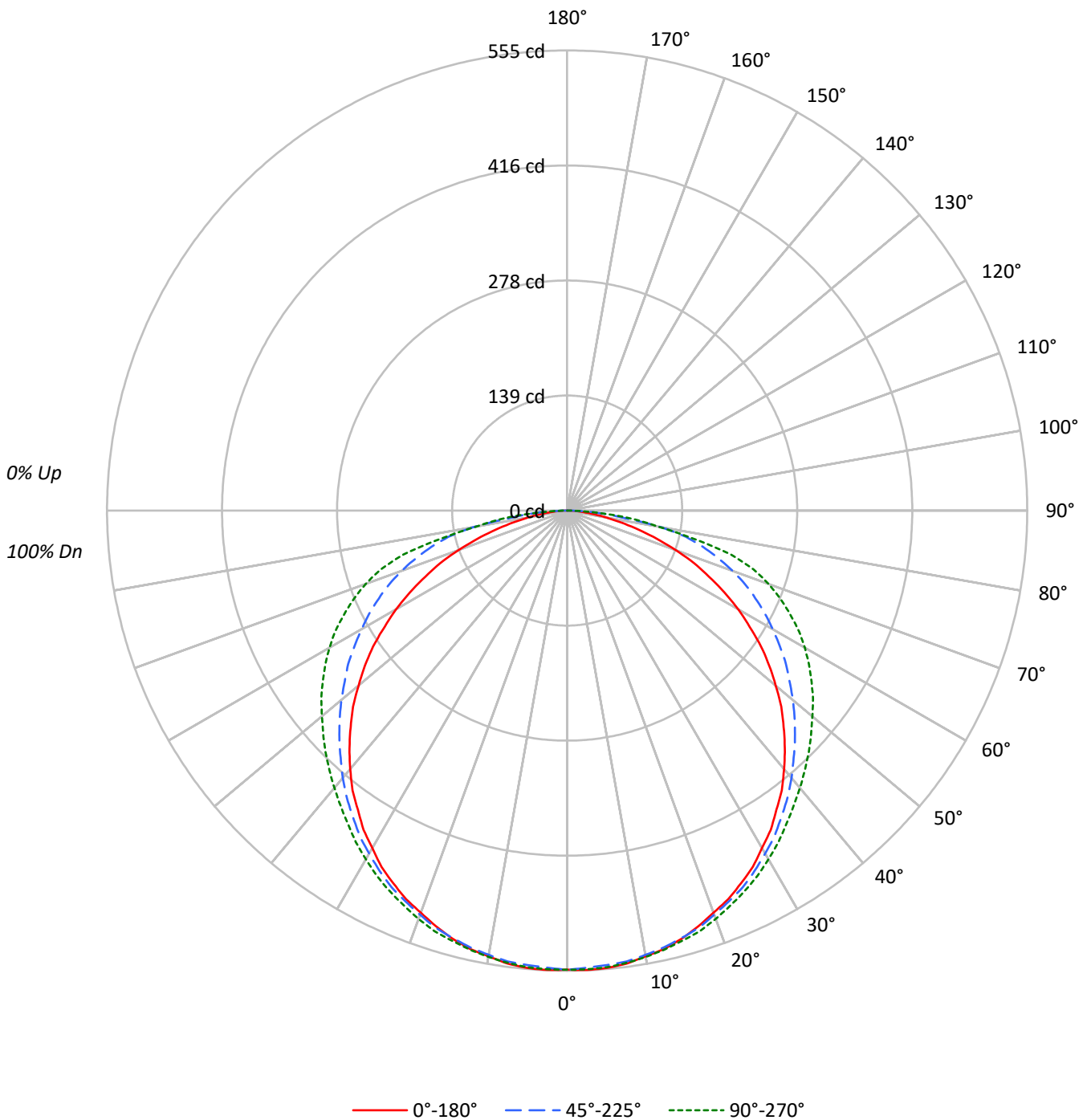
Input Watts (W): 26.63892
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	745	745	745
5°	748	743	747
10°	746	743	747
15°	745	743	748
20°	739	743	750
25°	737	744	752
30°	730	742	754
35°	723	740	757
40°	715	739	767
45°	703	739	784
50°	687	744	808
55°	670	756	844
60°	642	771	891
65°	600	798	945
70°	546	835	1017
75°	463	881	1063
80°	366	886	859
85°	270	675	755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	3.0
10°-20°	151.2	8.6
20°-30°	231.2	13.1
30°-40°	282.6	16.0
40°-50°	301.2	17.1
50°-60°	288.0	16.4
60°-70°	243.9	13.9
70°-80°	163.9	9.3
80°-90°	46.3	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°	434.8	24.7
0°-40°	717.4	40.7
0°-60°	1306.6	74.2
0°-90°	1760.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	554	553	550	553	553	53
15°	534	534	534	538	537	151
25°	496	498	501	506	506	229
35°	440	444	451	459	461	276
45°	369	376	389	405	412	285
55°	286	296	322	348	360	254
65°	189	208	251	284	297	187
75°	89	121	169	198	204	95
85°	18	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°	553.7	553.7	553.7	553.7	553.7
2.5°	554.6	554.6	551.9	553.7	553.7
5°	553.7	552.8	550.2	552.8	552.8
7.5°	551.1	550.2	548.5	551.1	550.2
10°	545.8	545.8	544.1	546.7	546.7
12.5°	541.5	540.6	539.7	543.2	542.3
15°	534.5	534.5	533.6	538.0	537.1
17.5°	525.7	526.6	527.5	531.0	531.9
20°	516.1	517.9	518.8	524.0	524.0
22.5°	507.4	508.3	510.0	515.3	515.3
25°	496.1	497.8	501.3	505.7	506.5
27.5°	484.7	485.6	489.9	496.1	496.9
30°	469.9	472.5	477.7	484.7	485.6
32.5°	456.8	459.4	465.5	472.5	474.2
35°	440.2	443.7	450.6	459.4	461.1
37.5°	425.3	427.9	436.7	446.3	448.9
40°	407.0	412.2	420.9	432.3	436.7
42.5°	388.6	393.9	404.4	419.2	424.4
45°	369.4	375.5	388.6	405.2	412.2
47.5°	350.2	357.2	372.0	391.3	399.1
50°	328.4	337.1	355.4	377.3	386.0
52.5°	307.4	317.9	338.0	362.4	373.8
55°	285.6	296.1	322.3	347.6	359.8
57.5°	261.1	275.1	303.9	332.7	345.8
60°	238.4	251.5	286.5	317.9	331.0
62.5°	214.0	231.4	269.0	302.2	315.3
65°	188.6	207.9	250.6	283.8	296.9
67.5°	165.9	186.9	232.3	265.5	278.6
70°	138.9	165.1	212.2	245.4	258.5
72.5°	113.5	142.4	191.3	223.6	235.8
75°	89.1	121.4	169.4	198.2	204.4
77.5°	66.4	100.4	146.7	158.9	154.6
80°	47.2	80.3	114.4	108.3	110.9
82.5°	30.6	61.1	70.7	80.3	83.0
85°	17.5	35.8	43.7	47.2	48.9
87.5°	7.9	13.1	17.5	17.5	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)