

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: P276822

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276822
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: 24CZ2-45HE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2220.1 lumens
Efficiency: N/A
Efficacy: 69.0 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

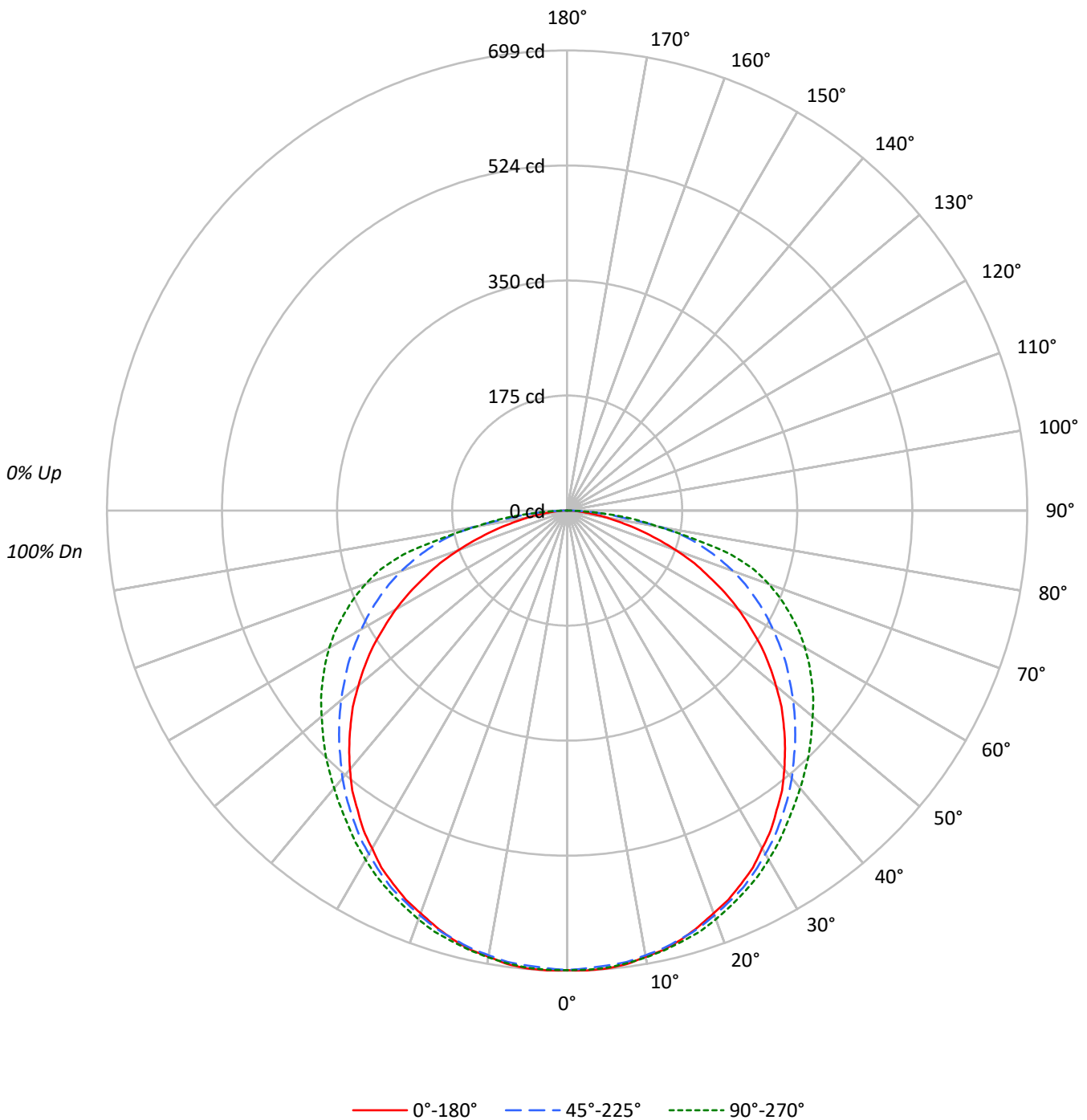
Input Watts (W): 32.156982
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	939	939	939
5°	943	937	941
10°	940	937	942
15°	939	937	943
20°	932	937	946
25°	929	938	948
30°	920	936	951
35°	912	933	955
40°	901	932	967
45°	886	932	989
50°	867	938	1019
55°	845	953	1064
60°	809	972	1123
65°	757	1006	1192
70°	689	1053	1282
75°	584	1110	1340
80°	461	1118	1083
85°	340	851	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.0
10°-20°	190.6	8.6
20°-30°	291.5	13.1
30°-40°	356.3	16.0
40°-50°	379.8	17.1
50°-60°	363.1	16.4
60°-70°	307.6	13.9
70°-80°	206.7	9.3
80°-90°	58.3	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°	548.3	24.7
0°-40°	904.6	40.7
0°-60°	1647.4	74.2
0°-90°	2220.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2220.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	698	697	694	697	697	66
15°	674	674	673	678	677	190
25°	626	628	632	638	639	288
35°	555	559	568	579	581	348
45°	466	474	490	511	520	359
55°	360	373	406	438	454	321
65°	238	262	316	358	374	236
75°	112	153	214	250	258	120
85°	22	45	55	60	62	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.1	698.1	698.1	698.1	698.1
2.5°	699.2	699.2	695.9	698.1	698.1
5°	698.1	697.0	693.7	697.0	697.0
7.5°	694.8	693.7	691.5	694.8	693.7
10°	688.2	688.2	686.0	689.3	689.3
12.5°	682.7	681.6	680.5	684.9	683.8
15°	673.9	673.9	672.8	678.3	677.2
17.5°	662.9	664.0	665.1	669.5	670.6
20°	650.8	653.0	654.1	660.7	660.7
22.5°	639.8	640.9	643.1	649.7	649.7
25°	625.5	627.7	632.1	637.6	638.7
27.5°	611.2	612.3	617.8	625.5	626.6
30°	592.4	595.7	602.3	611.2	612.3
32.5°	575.9	579.2	586.9	595.7	597.9
35°	555.0	559.4	568.2	579.2	581.4
37.5°	536.3	539.6	550.6	562.7	566.0
40°	513.1	519.8	530.8	545.1	550.6
42.5°	490.0	496.6	509.8	528.6	535.2
45°	465.8	473.5	490.0	510.9	519.8
47.5°	441.6	450.4	469.1	493.3	503.2
50°	414.0	425.1	448.2	475.7	486.7
52.5°	387.6	400.8	426.2	457.0	471.3
55°	360.1	373.3	406.3	438.3	453.7
57.5°	329.3	346.9	383.2	419.5	436.1
60°	300.6	317.1	361.2	400.8	417.3
62.5°	269.8	291.8	339.2	381.0	397.5
65°	237.9	262.1	316.0	357.9	374.4
67.5°	209.2	235.7	292.9	334.8	351.3
70°	175.1	208.1	267.6	309.4	325.9
72.5°	143.2	179.5	241.2	281.9	297.3
75°	112.3	153.1	213.6	250.0	257.7
77.5°	83.7	126.6	185.0	200.4	194.9
80°	59.5	101.3	144.3	136.5	139.8
82.5°	38.5	77.1	89.2	101.3	104.6
85°	22.0	45.1	55.1	59.5	61.7
87.5°	9.9	16.5	22.0	22.0	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)