

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: P277049

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277049
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.9 lumens
Efficiency: N/A
Efficacy: 82.0 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

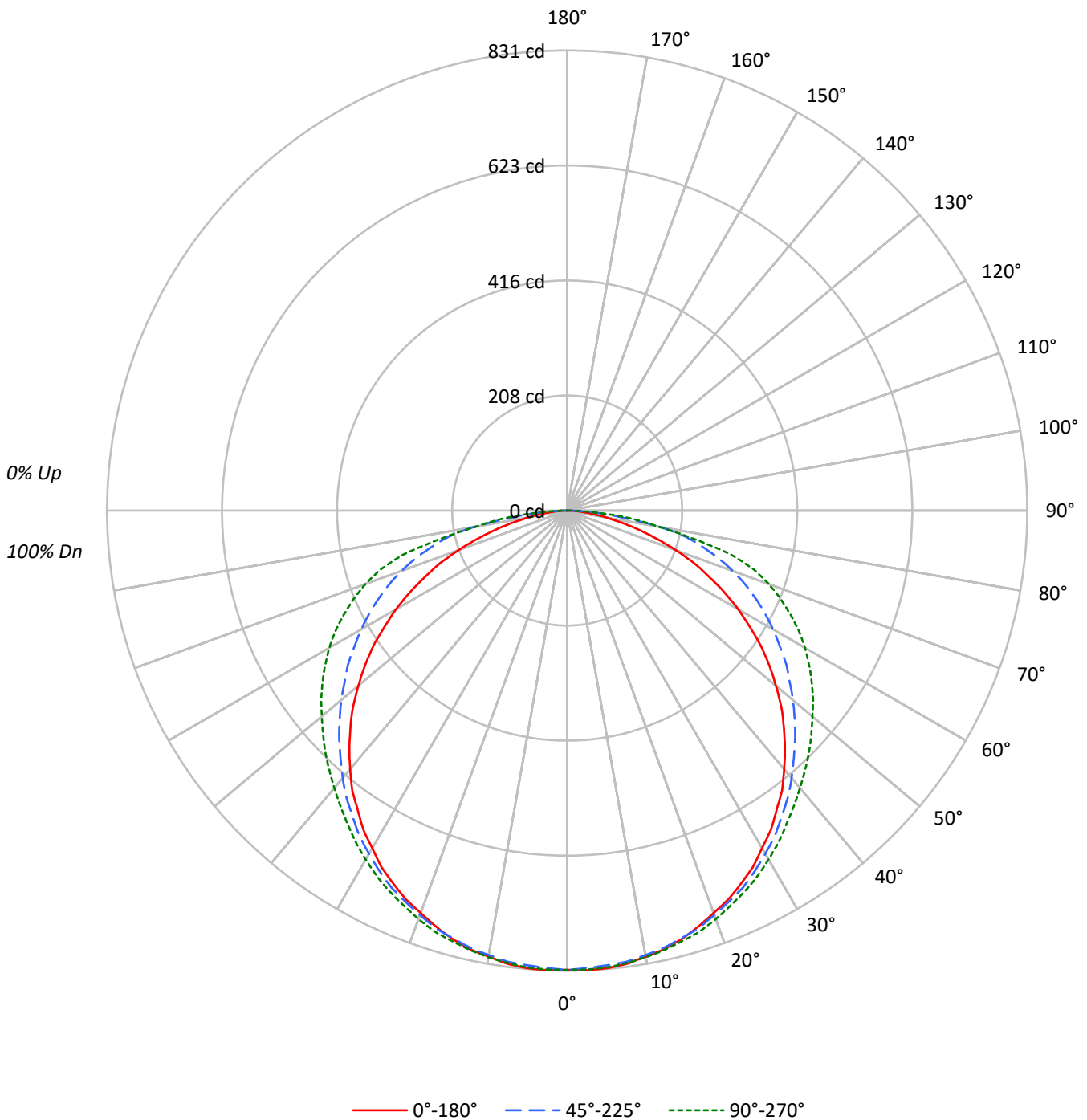
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1116	1116	1116
5°	1120	1113	1119
10°	1117	1114	1119
15°	1115	1114	1121
20°	1107	1113	1124
25°	1103	1115	1127
30°	1094	1112	1130
35°	1083	1109	1135
40°	1071	1108	1149
45°	1053	1108	1175
50°	1030	1115	1211
55°	1004	1133	1265
60°	961	1155	1334
65°	900	1195	1416
70°	818	1251	1524
75°	694	1319	1592
80°	548	1328	1288
85°	404	1010	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.0
10°-20°	226.5	8.6
20°-30°	346.3	13.1
30°-40°	423.4	16.0
40°-50°	451.2	17.1
50°-60°	431.4	16.4
60°-70°	365.5	13.9
70°-80°	245.6	9.3
80°-90°	69.3	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°	651.5	24.7
0°-40°	1074.8	40.7
0°-60°	1957.5	74.2
0°-90°	2637.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	830	828	824	828	828	79
15°	801	801	799	806	805	226
25°	743	746	751	758	759	343
35°	659	665	675	688	691	413
45°	554	563	582	607	618	427
55°	428	444	483	521	539	381
65°	283	311	376	425	445	281
75°	134	182	254	297	306	143
85°	26	54	65	71	73	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.5	829.5	829.5	829.5	829.5
2.5°	830.8	830.8	826.9	829.5	829.5
5°	829.5	828.2	824.3	828.2	828.2
7.5°	825.6	824.3	821.7	825.6	824.3
10°	817.8	817.8	815.1	819.1	819.1
12.5°	811.2	809.9	808.6	813.8	812.5
15°	800.7	800.7	799.4	806.0	804.7
17.5°	787.7	789.0	790.3	795.5	796.8
20°	773.3	775.9	777.2	785.0	785.0
22.5°	760.2	761.5	764.1	772.0	772.0
25°	743.2	745.8	751.0	757.6	758.9
27.5°	726.2	727.5	734.0	743.2	744.5
30°	703.9	707.9	715.7	726.2	727.5
32.5°	684.3	688.2	697.4	707.9	710.5
35°	659.4	664.7	675.1	688.2	690.8
37.5°	637.2	641.1	654.2	668.6	672.5
40°	609.7	617.6	630.7	647.7	654.2
42.5°	582.2	590.1	605.8	628.0	635.9
45°	553.5	562.6	582.2	607.1	617.6
47.5°	524.7	535.1	557.4	586.2	597.9
50°	492.0	505.0	532.5	565.2	578.3
52.5°	460.6	476.3	506.4	543.0	560.0
55°	427.9	443.6	482.8	520.7	539.1
57.5°	391.2	412.2	455.3	498.5	518.1
60°	357.2	376.8	429.2	476.3	495.9
62.5°	320.6	346.7	403.0	452.7	472.3
65°	282.6	311.4	375.5	425.2	444.9
67.5°	248.6	280.0	348.0	397.8	417.4
70°	208.0	247.3	317.9	367.7	387.3
72.5°	170.1	213.3	286.5	335.0	353.3
75°	133.5	181.9	253.8	297.0	306.2
77.5°	99.4	150.5	219.8	238.1	231.6
80°	70.7	120.4	171.4	162.2	166.2
82.5°	45.8	91.6	106.0	120.4	124.3
85°	26.2	53.6	65.4	70.7	73.3
87.5°	11.8	19.6	26.2	26.2	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)