

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: P277312

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

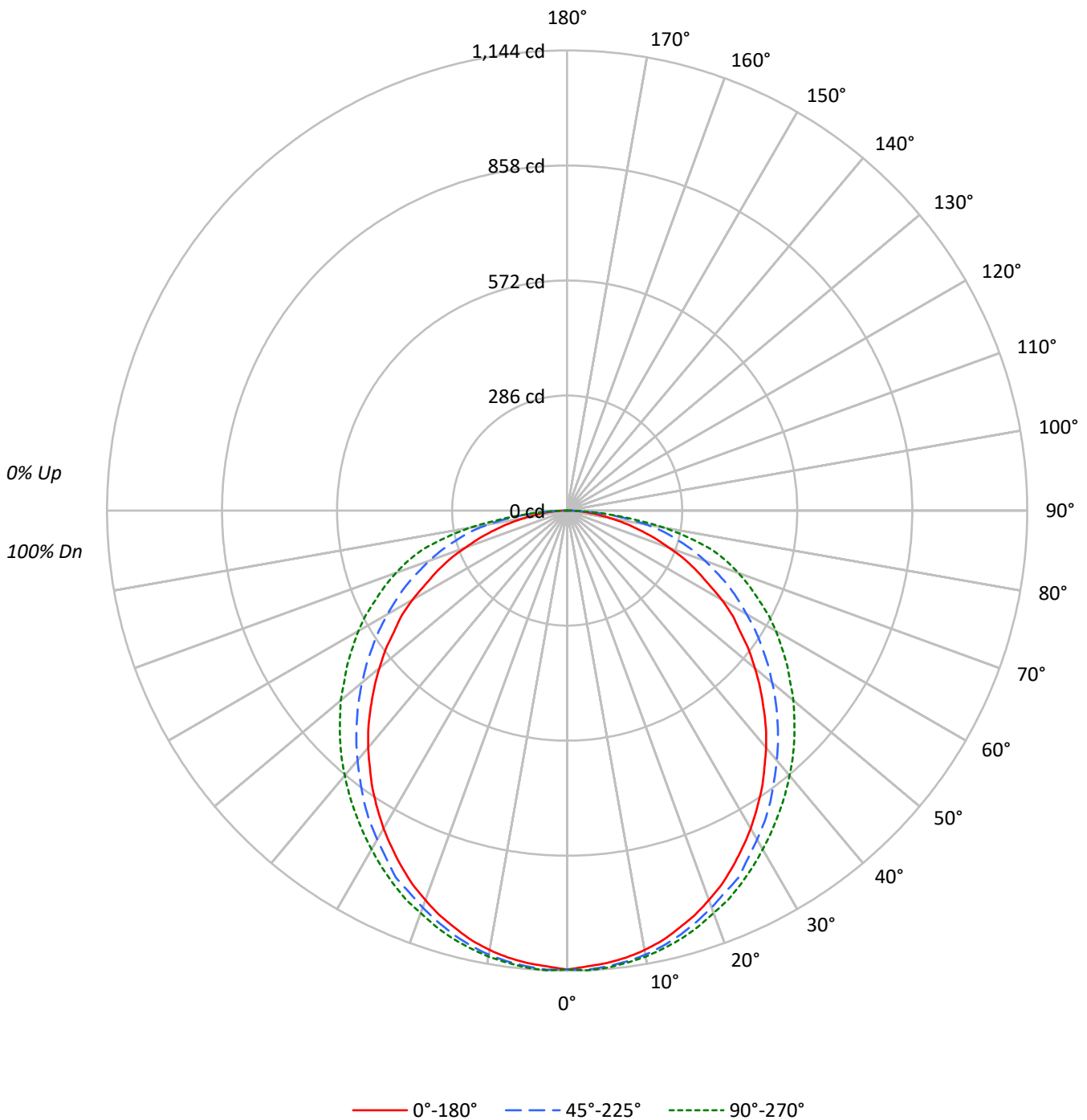
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277312

CATALOG NUMBER: 22CZ2-44HE-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P277312

CATALOG NUMBER: 22CZ2-44HE-UNV-L92765-W2A1-U-3000K

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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3070	3070	3070
5°	3050	3073	3082
10°	3031	3063	3077
15°	2994	3040	3068
20°	2950	3007	3049
25°	2897	2990	3039
30°	2837	2934	3022
35°	2771	2896	3015
40°	2702	2847	3021
45°	2626	2815	3041
50°	2550	2785	3075
55°	2463	2773	3129
60°	2390	2772	3225
65°	2271	2817	3343
70°	2117	2870	3559
75°	1940	2969	3845
80°	1689	3096	3786
85°	1479	2751	3007



TEST NUMBER: P277312

CATALOG NUMBER: 22CZ2-44HE-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.2
10°-20°	307.3	9.2
20°-30°	461.3	13.7
30°-40°	551.2	16.4
40°-50°	573.2	17.1
50°-60°	531.3	15.8
60°-70°	435.8	13.0
70°-80°	294.6	8.8
80°-90°	92.6	2.8
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°	876.5	26.1
0°-40°	1427.7	42.6
0°-60°	2532.1	75.5
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1129	1131	1138	1139	1141	107
15°	1075	1080	1091	1098	1101	303
25°	976	984	1007	1019	1024	449
35°	844	855	882	908	918	527
45°	690	703	740	782	799	533
55°	525	542	591	644	667	472
65°	357	376	442	500	525	352
75°	187	218	286	343	370	198
85°	48	66	89	99	97	54
90°	0	0	0	0	0	



TEST NUMBER: P277312

CATALOG NUMBER: 22CZ2-44HE-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1134.2	1137.5	1142.4	1144.1	1144.1
5°	1129.2	1130.9	1137.5	1139.1	1140.8
7.5°	1121.0	1124.3	1130.9	1132.5	1134.2
10°	1109.4	1112.7	1121.0	1124.3	1125.9
12.5°	1094.5	1097.8	1107.7	1112.7	1114.3
15°	1074.7	1079.7	1091.2	1097.8	1101.1
17.5°	1054.9	1059.9	1071.4	1081.3	1084.6
20°	1030.2	1041.7	1050.0	1063.2	1064.8
22.5°	1005.4	1012.0	1026.9	1040.1	1046.7
25°	975.7	983.9	1007.0	1018.6	1023.5
27.5°	944.3	955.9	974.0	992.2	998.8
30°	912.9	921.2	944.3	965.8	972.4
32.5°	878.3	889.8	914.6	936.1	946.0
35°	843.6	855.2	881.6	908.0	917.9
37.5°	805.6	818.8	845.3	876.6	889.8
40°	769.3	779.2	810.6	848.6	860.1
42.5°	731.3	742.9	775.9	817.2	830.4
45°	690.1	703.3	739.6	782.5	799.0
47.5°	650.4	663.7	703.3	746.2	766.0
50°	609.2	625.7	665.3	714.8	734.6
52.5°	569.6	584.4	629.0	680.2	698.3
55°	525.0	541.5	591.0	643.8	667.0
57.5°	488.7	500.2	554.7	609.2	632.3
60°	444.1	458.9	515.1	572.9	599.3
62.5°	396.2	421.0	478.8	538.2	564.6
65°	356.6	376.4	442.4	500.2	525.0
67.5°	315.3	336.8	401.2	462.2	490.3
70°	269.1	297.2	364.8	425.9	452.3
72.5°	227.8	257.5	326.9	386.3	414.4
75°	186.6	217.9	285.6	343.4	369.8
77.5°	146.9	181.6	247.6	292.2	308.7
80°	109.0	142.0	199.8	231.1	244.3
82.5°	75.9	104.0	146.9	163.4	166.7
85°	47.9	66.0	89.1	99.1	97.4
87.5°	21.5	26.4	33.0	36.3	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)