

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: P277208

Luminaire Tested: **22CZ2-44HE-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277208
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-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3500.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

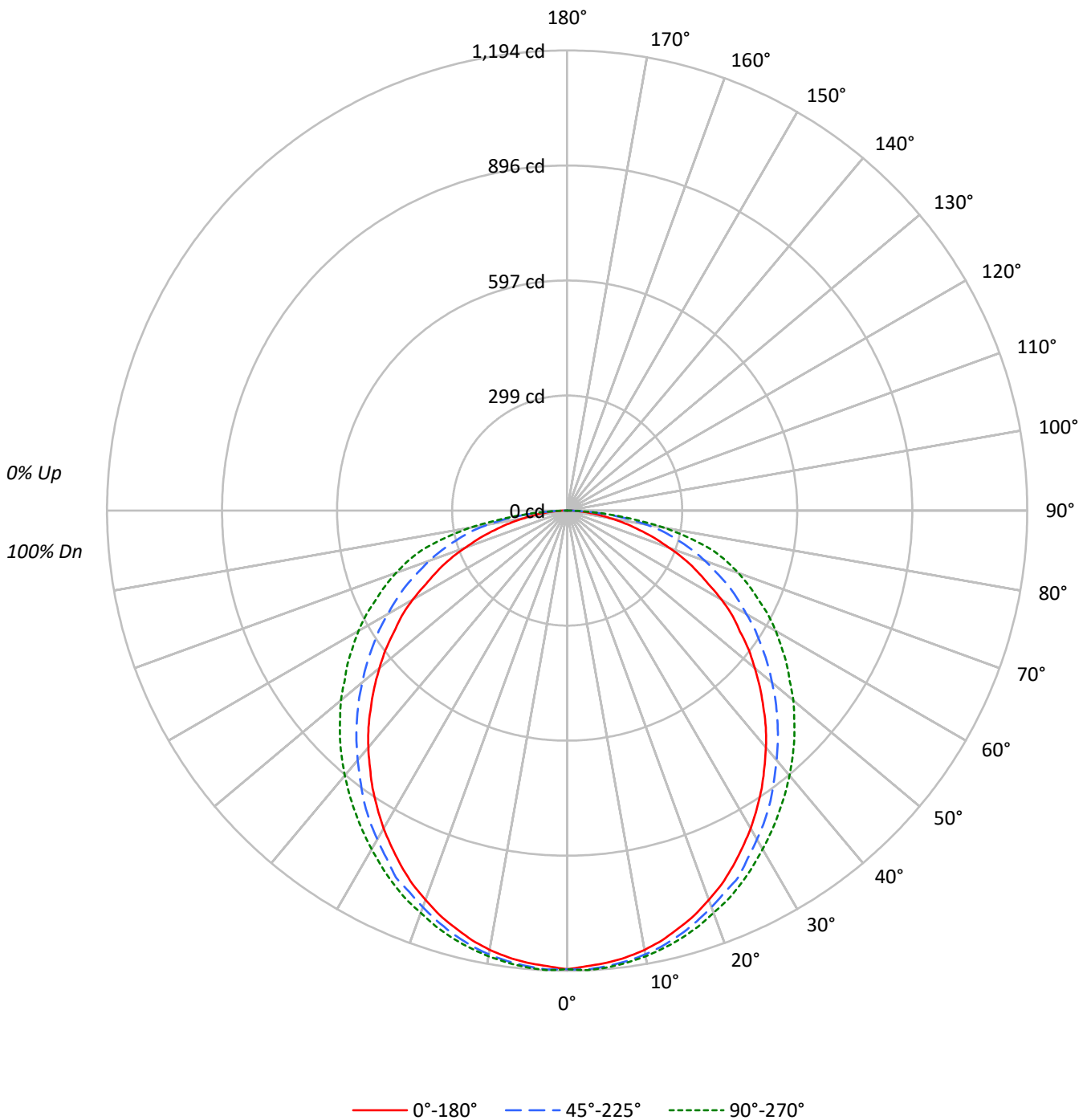
Input Watts (W): 35.253324
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3203	3203	3203
5°	3182	3205	3215
10°	3162	3195	3210
15°	3124	3171	3200
20°	3078	3137	3181
25°	3022	3119	3170
30°	2959	3061	3152
35°	2891	3021	3146
40°	2819	2970	3152
45°	2740	2936	3172
50°	2660	2906	3208
55°	2570	2893	3264
60°	2493	2892	3365
65°	2369	2939	3487
70°	2209	2995	3713
75°	2023	3097	4011
80°	1762	3230	3950
85°	1541	2871	3137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.2
10°-20°	320.6	9.2
20°-30°	481.2	13.7
30°-40°	575.0	16.4
40°-50°	598.0	17.1
50°-60°	554.2	15.8
60°-70°	454.6	13.0
70°-80°	307.3	8.8
80°-90°	96.6	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°	914.4	26.1
0°-40°	1489.4	42.6
0°-60°	2641.6	75.5
0°-90°	3500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1178	1180	1187	1188	1190	112
15°	1121	1126	1138	1145	1149	316
25°	1018	1026	1051	1063	1068	469
35°	880	892	920	947	958	550
45°	720	734	772	816	834	556
55°	548	565	617	672	696	492
65°	372	393	462	522	548	368
75°	195	227	298	358	386	206
85°	50	69	93	103	102	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.1	1190.1	1190.1	1190.1	1190.1
2.5°	1183.2	1186.6	1191.8	1193.5	1193.5
5°	1178.0	1179.7	1186.6	1188.3	1190.1
7.5°	1169.4	1172.8	1179.7	1181.5	1183.2
10°	1157.3	1160.8	1169.4	1172.8	1174.6
12.5°	1141.8	1145.3	1155.6	1160.8	1162.5
15°	1121.2	1126.3	1138.4	1145.3	1148.7
17.5°	1100.5	1105.7	1117.7	1128.1	1131.5
20°	1074.7	1086.7	1095.3	1109.1	1110.8
22.5°	1048.8	1055.7	1071.2	1085.0	1091.9
25°	1017.8	1026.5	1050.6	1062.6	1067.8
27.5°	985.1	997.2	1016.1	1035.1	1042.0
30°	952.4	961.0	985.1	1007.5	1014.4
32.5°	916.2	928.3	954.1	976.5	986.8
35°	880.1	892.1	919.7	947.2	957.6
37.5°	840.5	854.2	881.8	914.5	928.3
40°	802.6	812.9	845.6	885.2	897.3
42.5°	763.0	775.0	809.5	852.5	866.3
45°	719.9	733.7	771.6	816.3	833.6
47.5°	678.6	692.3	733.7	778.5	799.1
50°	635.5	652.7	694.1	745.7	766.4
52.5°	594.2	609.7	656.2	709.6	728.5
55°	547.7	564.9	616.6	671.7	695.8
57.5°	509.8	521.8	578.7	635.5	659.6
60°	463.3	478.8	537.3	597.6	625.2
62.5°	413.3	439.2	499.4	561.4	589.0
65°	372.0	392.7	461.6	521.8	547.7
67.5°	328.9	351.3	418.5	482.2	511.5
70°	280.7	310.0	380.6	444.3	471.9
72.5°	237.7	268.7	341.0	403.0	432.3
75°	194.6	227.3	297.9	358.2	385.8
77.5°	153.3	189.4	258.3	304.8	322.1
80°	113.7	148.1	208.4	241.1	254.9
82.5°	79.2	108.5	153.3	170.5	173.9
85°	49.9	68.9	93.0	103.3	101.6
87.5°	22.4	27.6	34.4	37.9	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)