

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: P259535

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

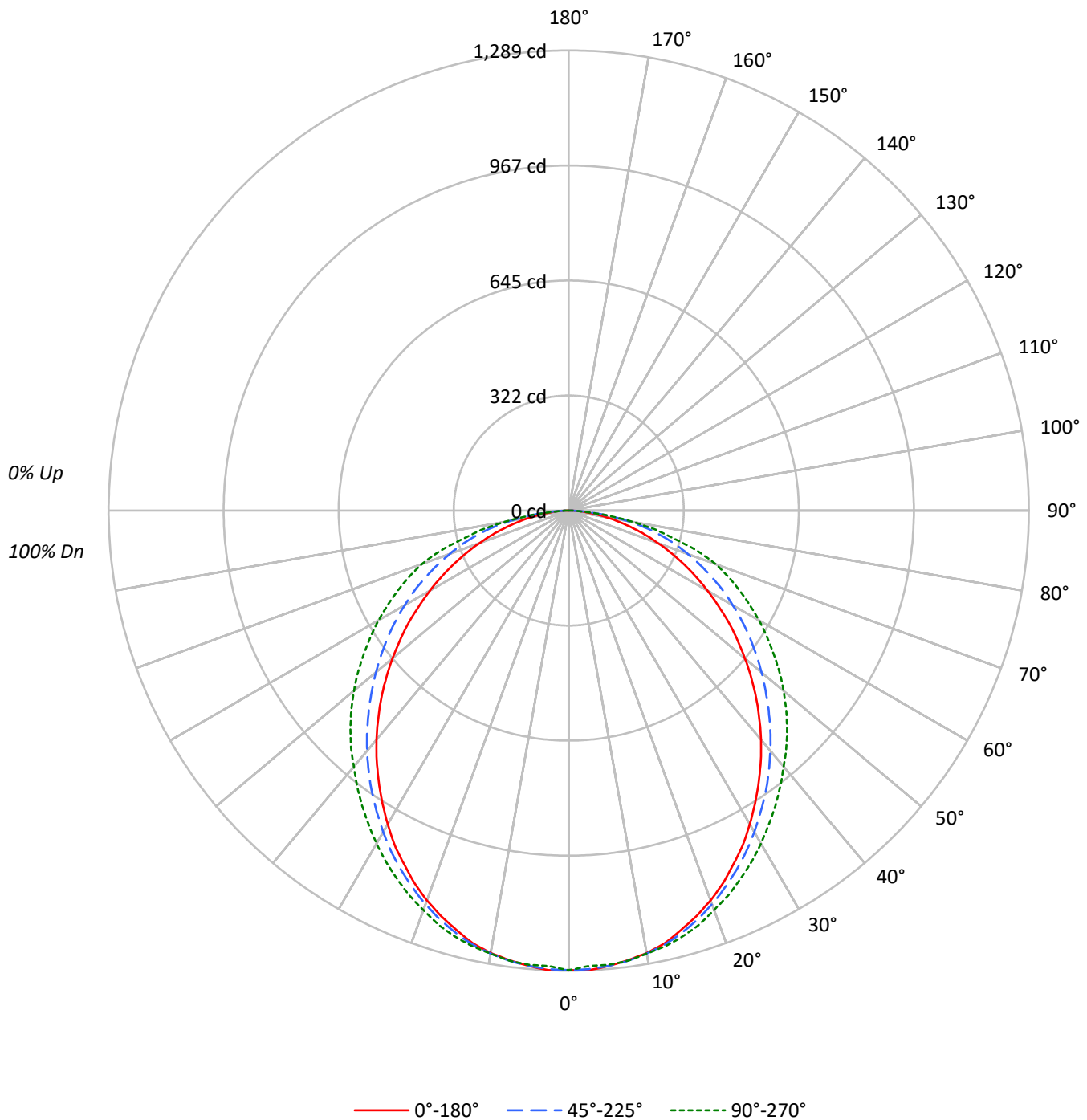
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3464	3464	3464
5°	3459	3459	3450
10°	3439	3443	3443
15°	3388	3411	3440
20°	3327	3361	3409
25°	3243	3298	3379
30°	3151	3230	3347
35°	3048	3159	3315
40°	2943	3086	3289
45°	2827	3014	3292
50°	2698	2954	3287
55°	2570	2904	3286
60°	2419	2857	3313
65°	2268	2819	3359
70°	2095	2789	3443
75°	1887	2769	3192
80°	1655	2576	2786
85°	1362	1939	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.4
10°-20°	345.3	9.8
20°-30°	512.9	14.5
30°-40°	603.7	17.1
40°-50°	615.5	17.4
50°-60°	555.1	15.7
60°-70°	437.2	12.4
70°-80°	269.7	7.6
80°-90°	70.0	2.0
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°	979.8	27.7
0°-40°	1583.5	44.8
0°-60°	2754.0	78.0
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1280	1282	1280	1279	1277	122
15°	1216	1221	1224	1231	1235	343
25°	1092	1099	1111	1130	1138	503
35°	928	938	962	992	1009	580
45°	743	755	792	840	865	573
55°	548	566	619	675	700	489
65°	356	382	443	499	528	353
75°	182	212	266	297	307	194
85°	44	56	63	59	56	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.3	1287.3	1287.3	1287.3	1287.3
2.5°	1289.0	1289.0	1285.6	1282.2	1277.1
5°	1280.5	1282.2	1280.5	1278.8	1277.1
7.5°	1270.3	1272.0	1272.0	1272.0	1272.0
10°	1258.4	1260.1	1260.1	1260.1	1260.1
12.5°	1241.5	1243.2	1244.9	1246.6	1249.9
15°	1216.0	1221.1	1224.5	1231.3	1234.7
17.5°	1190.6	1195.7	1200.8	1209.2	1216.0
20°	1161.8	1165.1	1173.6	1183.8	1190.6
22.5°	1129.5	1134.6	1143.1	1156.7	1166.8
25°	1092.2	1099.0	1110.9	1129.5	1138.0
27.5°	1056.6	1061.7	1077.0	1097.3	1109.2
30°	1014.2	1021.0	1039.6	1065.1	1077.0
32.5°	971.8	980.3	1000.6	1029.5	1043.0
35°	927.7	937.9	961.6	992.2	1009.1
37.5°	883.6	893.8	920.9	954.8	973.5
40°	837.8	848.0	878.5	915.8	936.2
42.5°	790.3	802.2	836.1	878.5	902.3
45°	742.8	754.7	792.0	839.5	865.0
47.5°	693.7	707.2	747.9	800.5	825.9
50°	644.5	659.7	705.5	759.8	785.2
52.5°	595.3	612.3	661.4	717.4	744.5
55°	547.8	566.5	619.0	675.0	700.4
57.5°	496.9	519.0	574.9	629.2	658.0
60°	449.4	473.2	530.8	585.1	615.6
62.5°	402.0	427.4	488.4	542.7	571.5
65°	356.2	381.6	442.7	498.6	527.5
67.5°	310.4	339.2	398.6	454.5	483.4
70°	266.3	296.8	354.5	408.7	437.6
72.5°	223.9	254.4	312.1	362.9	379.9
75°	181.5	212.0	266.3	296.8	307.0
77.5°	142.5	171.3	218.8	237.4	251.0
80°	106.8	132.3	166.2	178.1	179.8
82.5°	72.9	95.0	115.3	117.0	115.3
85°	44.1	56.0	62.8	59.4	56.0
87.5°	20.4	22.0	20.4	13.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)