

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: P259525

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259525
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-LD5-34-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3326.0 lumens
Efficiency: N/A
Efficacy: 123.7 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

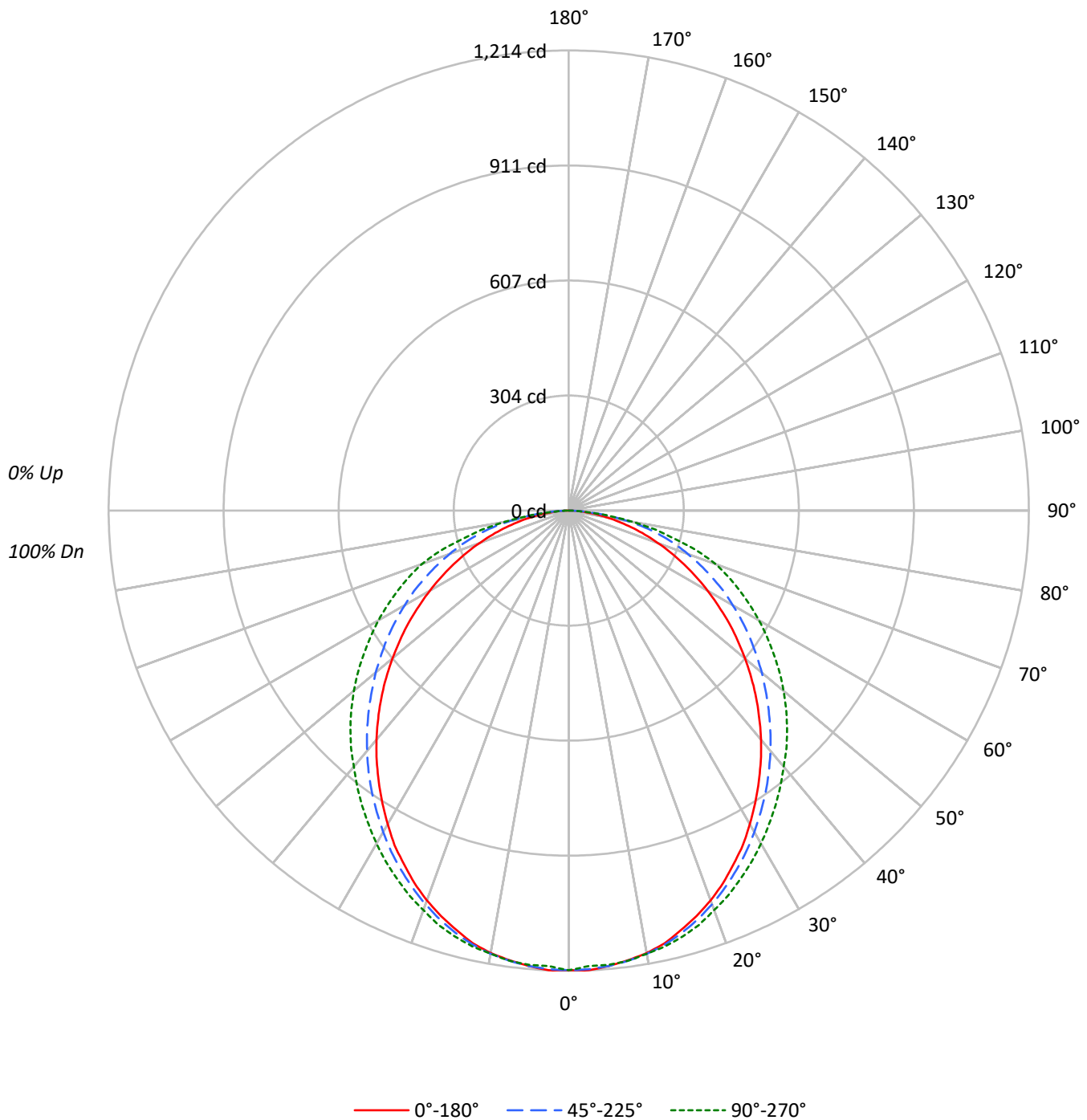
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3263	3263	3263
5°	3258	3258	3249
10°	3239	3243	3243
15°	3191	3213	3240
20°	3134	3166	3212
25°	3055	3107	3183
30°	2968	3043	3152
35°	2871	2976	3122
40°	2772	2907	3098
45°	2663	2839	3100
50°	2542	2782	3097
55°	2421	2736	3096
60°	2278	2691	3121
65°	2136	2655	3163
70°	1973	2627	3243
75°	1777	2608	3007
80°	1559	2427	2624
85°	1281	1825	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.4
10°-20°	325.3	9.8
20°-30°	483.1	14.5
30°-40°	568.7	17.1
40°-50°	579.7	17.4
50°-60°	522.9	15.7
60°-70°	411.8	12.4
70°-80°	254.1	7.6
80°-90°	65.9	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°	922.9	27.7
0°-40°	1491.5	44.8
0°-60°	2594.1	78.0
0°-90°	3326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1206	1208	1206	1204	1203	114
15°	1145	1150	1153	1160	1163	323
25°	1029	1035	1046	1064	1072	474
35°	874	883	906	935	950	547
45°	700	711	746	791	815	539
55°	516	534	583	636	660	460
65°	336	359	417	470	497	332
75°	171	200	251	280	289	182
85°	42	53	59	56	53	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.5	1212.5	1212.5	1212.5	1212.5
2.5°	1214.1	1214.1	1210.9	1207.7	1202.9
5°	1206.1	1207.7	1206.1	1204.5	1202.9
7.5°	1196.5	1198.1	1198.1	1198.1	1198.1
10°	1185.4	1187.0	1187.0	1187.0	1187.0
12.5°	1169.4	1171.0	1172.6	1174.2	1177.4
15°	1145.4	1150.2	1153.4	1159.8	1163.0
17.5°	1121.5	1126.3	1131.0	1139.0	1145.4
20°	1094.3	1097.5	1105.5	1115.1	1121.5
22.5°	1064.0	1068.7	1076.7	1089.5	1099.1
25°	1028.8	1035.2	1046.4	1064.0	1071.9
27.5°	995.3	1000.1	1014.4	1033.6	1044.8
30°	955.3	961.7	979.3	1003.2	1014.4
32.5°	915.4	923.4	942.5	969.7	982.5
35°	873.8	883.4	905.8	934.6	950.5
37.5°	832.3	841.9	867.5	899.4	917.0
40°	789.2	798.8	827.5	862.7	881.8
42.5°	744.4	755.6	787.6	827.5	849.9
45°	699.7	710.9	746.0	790.8	814.7
47.5°	653.4	666.2	704.5	754.0	778.0
50°	607.1	621.4	664.6	715.7	739.7
52.5°	560.7	576.7	623.0	675.8	701.3
55°	516.0	533.6	583.1	635.8	659.8
57.5°	468.1	488.8	541.6	592.7	619.8
60°	423.3	445.7	500.0	551.1	579.9
62.5°	378.6	402.6	460.1	511.2	538.4
65°	335.5	359.4	417.0	469.7	496.8
67.5°	292.3	319.5	375.4	428.1	455.3
70°	250.8	279.6	333.9	385.0	412.2
72.5°	210.9	239.6	293.9	341.9	357.8
75°	170.9	199.7	250.8	279.6	289.2
77.5°	134.2	161.4	206.1	223.7	236.4
80°	100.6	124.6	156.6	167.7	169.3
82.5°	68.7	89.5	108.6	110.2	108.6
85°	41.5	52.7	59.1	55.9	52.7
87.5°	19.2	20.8	19.2	12.8	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)