

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: P259471

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259471
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-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

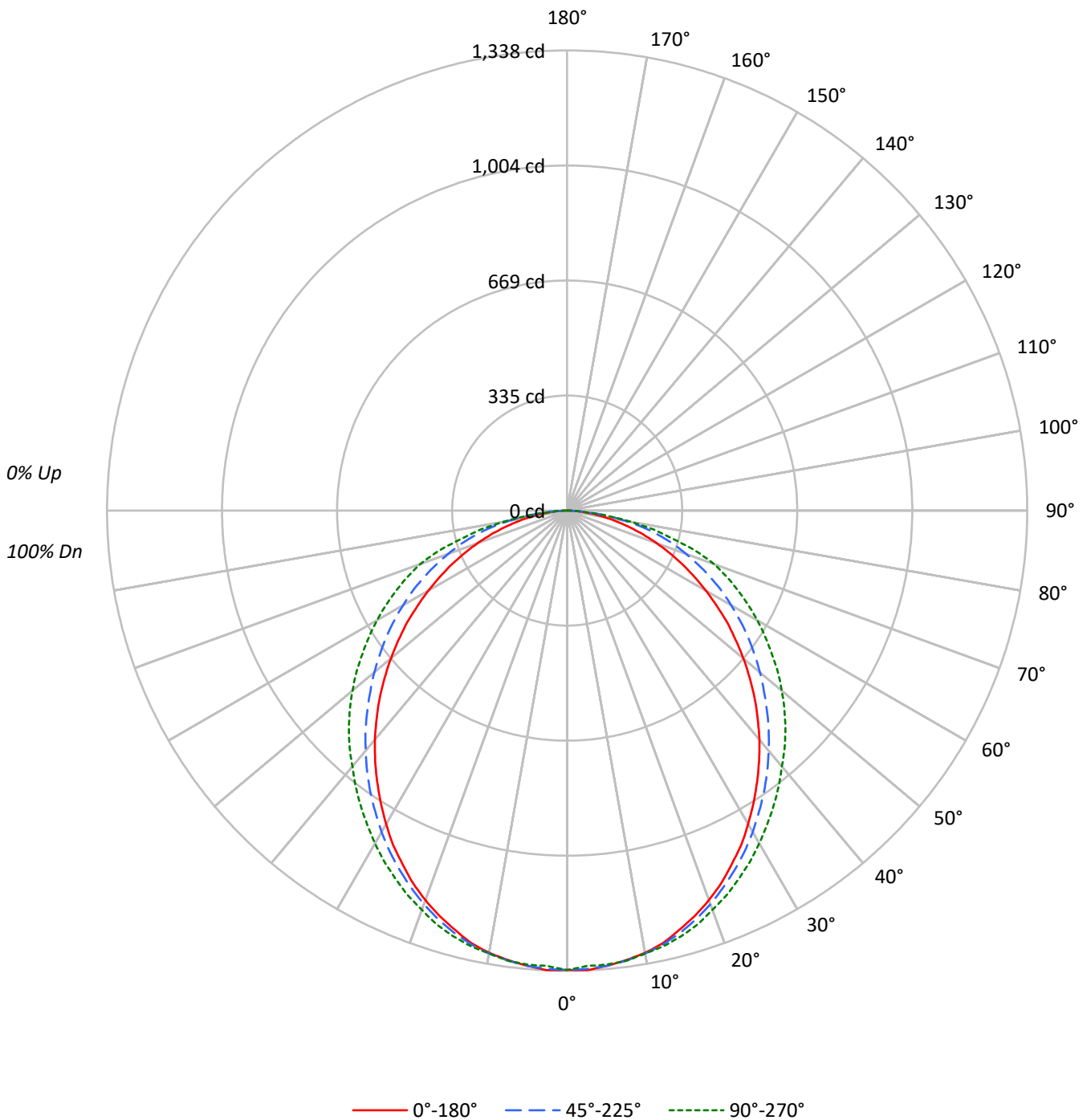
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3594	3594	3594
5°	3589	3589	3580
10°	3568	3573	3573
15°	3515	3540	3569
20°	3452	3487	3538
25°	3365	3423	3506
30°	3270	3352	3472
35°	3163	3278	3440
40°	3054	3202	3413
45°	2933	3128	3416
50°	2800	3065	3411
55°	2667	3014	3410
60°	2510	2964	3438
65°	2353	2925	3485
70°	2174	2894	3572
75°	1958	2873	3311
80°	1719	2673	2890
85°	1414	2010	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.4
10°-20°	358.3	9.8
20°-30°	532.2	14.5
30°-40°	626.4	17.1
40°-50°	638.7	17.4
50°-60°	576.0	15.7
60°-70°	453.7	12.4
70°-80°	279.9	7.6
80°-90°	72.7	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°	1016.7	27.7
0°-40°	1643.1	44.8
0°-60°	2857.8	78.0
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1329	1330	1329	1327	1325	126
15°	1262	1267	1271	1278	1281	356
25°	1133	1140	1153	1172	1181	522
35°	963	973	998	1030	1047	602
45°	771	783	822	871	898	594
55°	568	588	642	700	727	507
65°	370	396	459	517	547	366
75°	188	220	276	308	318	201
85°	46	58	65	62	58	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.7	1335.7	1335.7	1335.7	1335.7
2.5°	1337.5	1337.5	1334.0	1330.5	1325.2
5°	1328.7	1330.5	1328.7	1326.9	1325.2
7.5°	1318.1	1319.9	1319.9	1319.9	1319.9
10°	1305.8	1307.6	1307.6	1307.6	1307.6
12.5°	1288.2	1290.0	1291.7	1293.5	1297.0
15°	1261.8	1267.1	1270.6	1277.7	1281.2
17.5°	1235.4	1240.7	1246.0	1254.8	1261.8
20°	1205.5	1209.0	1217.8	1228.4	1235.4
22.5°	1172.1	1177.4	1186.2	1200.2	1210.8
25°	1133.4	1140.4	1152.7	1172.1	1180.9
27.5°	1096.4	1101.7	1117.5	1138.6	1151.0
30°	1052.4	1059.4	1078.8	1105.2	1117.5
32.5°	1008.4	1017.2	1038.3	1068.2	1082.3
35°	962.7	973.2	997.8	1029.5	1047.1
37.5°	916.9	927.5	955.6	990.8	1010.2
40°	869.4	879.9	911.6	950.3	971.5
42.5°	820.1	832.4	867.6	911.6	936.3
45°	770.8	783.1	821.9	871.1	897.5
47.5°	719.8	733.9	776.1	830.7	857.1
50°	668.8	684.6	732.1	788.4	814.8
52.5°	617.7	635.3	686.4	744.4	772.6
55°	568.4	587.8	642.4	700.4	726.8
57.5°	515.6	538.5	596.6	652.9	682.8
60°	466.4	491.0	550.8	607.2	638.8
62.5°	417.1	443.5	506.8	563.2	593.1
65°	369.6	396.0	459.3	517.4	547.3
67.5°	322.1	352.0	413.6	471.6	501.6
70°	276.3	308.0	367.8	424.1	454.0
72.5°	232.3	264.0	323.8	376.6	394.2
75°	188.3	220.0	276.3	308.0	318.5
77.5°	147.8	177.7	227.0	246.4	260.5
80°	110.9	137.3	172.5	184.8	186.5
82.5°	75.7	98.6	119.7	121.4	119.7
85°	45.8	58.1	65.1	61.6	58.1
87.5°	21.1	22.9	21.1	14.1	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)