

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: P259482

Luminaire Tested: **22CZ-LD5-44-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259482
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4254.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

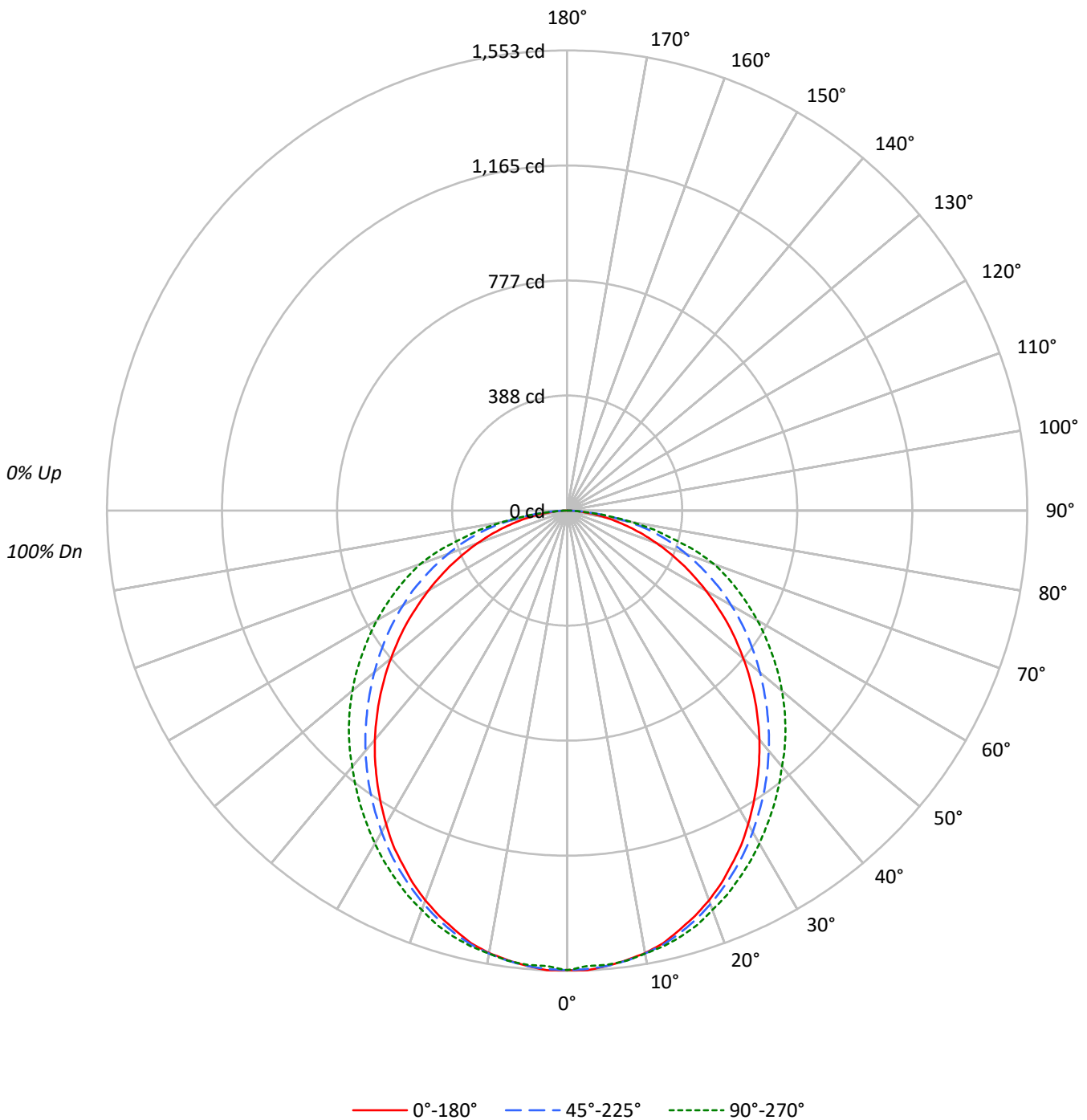
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4173	4173	4173
5°	4167	4167	4156
10°	4143	4148	4148
15°	4081	4110	4144
20°	4008	4049	4108
25°	3907	3974	4071
30°	3797	3892	4032
35°	3672	3806	3994
40°	3546	3718	3962
45°	3406	3631	3966
50°	3250	3558	3960
55°	3096	3499	3959
60°	2914	3442	3992
65°	2732	3396	4046
70°	2524	3360	4148
75°	2273	3335	3845
80°	1994	3102	3357
85°	1639	2334	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.4
10°-20°	416.0	9.8
20°-30°	617.9	14.5
30°-40°	727.3	17.1
40°-50°	741.5	17.4
50°-60°	668.8	15.7
60°-70°	526.8	12.4
70°-80°	324.9	7.6
80°-90°	84.3	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°	1180.4	27.7
0°-40°	1907.7	44.8
0°-60°	3318.0	78.0
0°-90°	4254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1543	1545	1543	1541	1539	146
15°	1465	1471	1475	1483	1488	413
25°	1316	1324	1338	1361	1371	606
35°	1118	1130	1158	1195	1216	699
45°	895	909	954	1011	1042	690
55°	660	682	746	813	844	589
65°	429	460	533	601	636	425
75°	219	255	321	358	370	233
85°	53	67	76	72	67	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.8	1550.8	1550.8	1550.8	1550.8
2.5°	1552.9	1552.9	1548.8	1544.7	1538.6
5°	1542.7	1544.7	1542.7	1540.6	1538.6
7.5°	1530.4	1532.4	1532.4	1532.4	1532.4
10°	1516.1	1518.1	1518.1	1518.1	1518.1
12.5°	1495.7	1497.7	1499.8	1501.8	1505.9
15°	1465.0	1471.1	1475.2	1483.4	1487.5
17.5°	1434.4	1440.5	1446.6	1456.8	1465.0
20°	1399.6	1403.7	1413.9	1426.2	1434.4
22.5°	1360.8	1366.9	1377.2	1393.5	1405.8
25°	1315.9	1324.0	1338.3	1360.8	1371.0
27.5°	1273.0	1279.1	1297.5	1322.0	1336.3
30°	1221.9	1230.0	1252.5	1283.2	1297.5
32.5°	1170.8	1181.0	1205.5	1240.3	1256.6
35°	1117.7	1129.9	1158.5	1195.3	1215.7
37.5°	1064.5	1076.8	1109.5	1150.4	1172.8
40°	1009.4	1021.6	1058.4	1103.4	1127.9
42.5°	952.2	966.5	1007.3	1058.4	1087.0
45°	894.9	909.3	954.2	1011.4	1042.1
47.5°	835.7	852.0	901.1	964.4	995.1
50°	776.4	794.8	850.0	915.4	946.0
52.5°	717.2	737.6	796.9	864.3	897.0
55°	660.0	682.4	745.8	813.2	843.9
57.5°	598.7	625.2	692.7	758.0	792.8
60°	541.5	570.1	639.5	704.9	741.7
62.5°	484.3	514.9	588.5	653.8	688.6
65°	429.1	459.7	533.3	600.7	635.5
67.5°	373.9	408.7	480.2	547.6	582.3
70°	320.8	357.6	427.0	492.4	527.2
72.5°	269.7	306.5	376.0	437.3	457.7
75°	218.6	255.4	320.8	357.6	369.8
77.5°	171.6	206.4	263.6	286.1	302.4
80°	128.7	159.4	200.2	214.5	216.6
82.5°	87.9	114.4	138.9	141.0	138.9
85°	53.1	67.4	75.6	71.5	67.4
87.5°	24.5	26.6	24.5	16.3	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)