

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: P276284

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3193.7 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

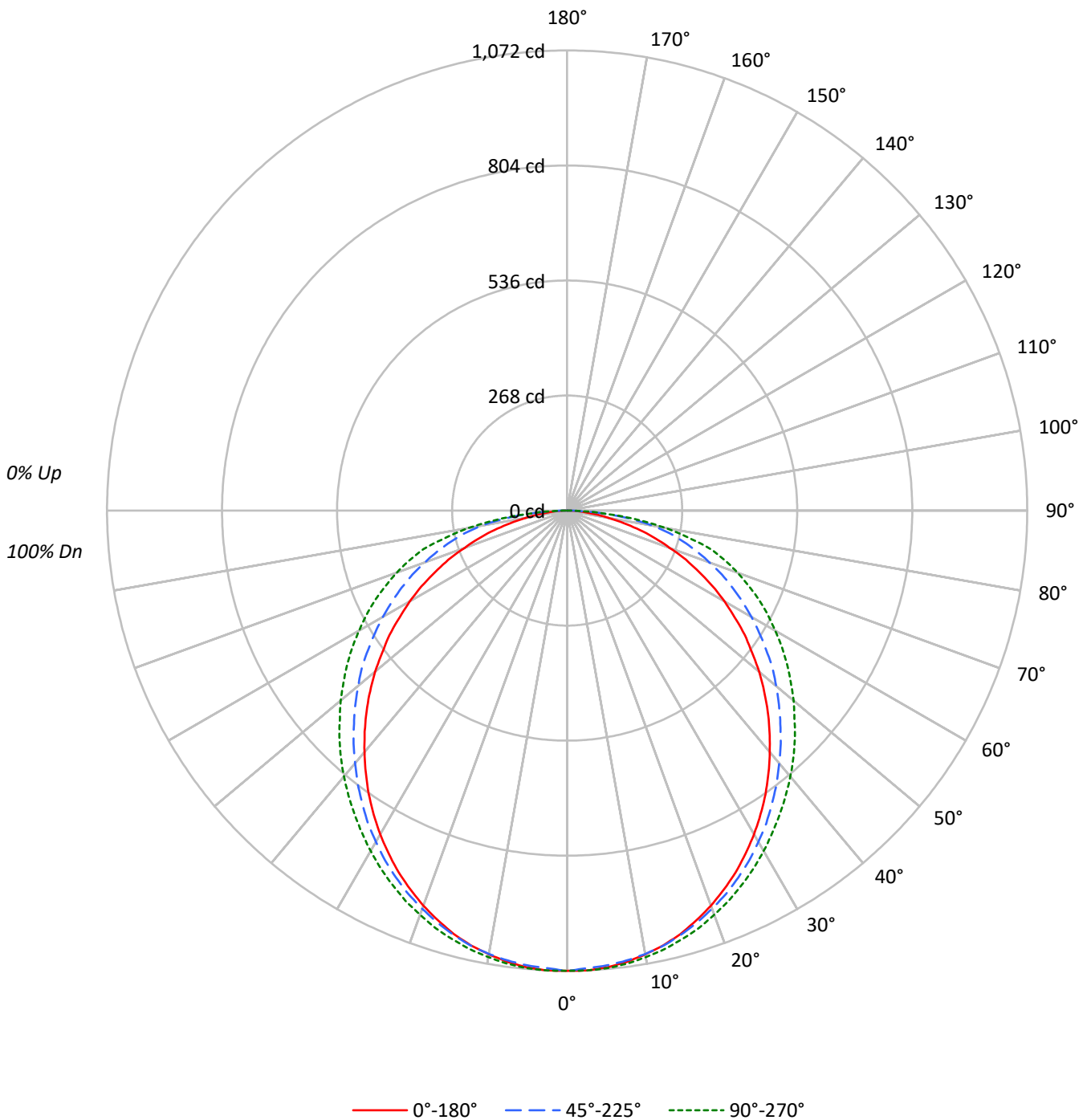
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1443	1443	1443
5°	1442	1437	1445
10°	1434	1433	1443
15°	1422	1425	1440
20°	1402	1413	1435
25°	1380	1400	1429
30°	1353	1384	1423
35°	1324	1367	1418
40°	1290	1350	1421
45°	1257	1337	1428
50°	1223	1330	1441
55°	1185	1328	1468
60°	1139	1334	1506
65°	1079	1354	1571
70°	1002	1388	1661
75°	914	1457	1801
80°	752	1569	1801
85°	576	1448	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.2
10°-20°	289.5	9.1
20°-30°	435.7	13.6
30°-40°	522.1	16.3
40°-50°	544.1	17.0
50°-60°	506.2	15.9
60°-70°	416.9	13.1
70°-80°	284.0	8.9
80°-90°	93.7	2.9
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°	826.6	25.9
0°-40°	1348.7	42.2
0°-60°	2399.1	75.1
0°-90°	3193.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1068	1068	1064	1069	1070	101
15°	1021	1022	1023	1033	1034	288
25°	929	934	943	959	962	428
35°	806	815	832	855	863	504
45°	661	675	702	738	750	510
55°	505	522	566	611	626	450
65°	339	368	425	475	494	336
75°	176	215	280	330	346	185
85°	37	72	94	100	100	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.3	1072.3	1072.3	1072.3	1072.3
2.5°	1072.3	1072.3	1066.9	1072.3	1072.3
5°	1068.0	1068.0	1063.7	1069.1	1070.1
7.5°	1060.5	1061.6	1057.4	1063.7	1064.8
10°	1049.9	1051.0	1048.8	1055.2	1056.3
12.5°	1037.1	1038.2	1038.2	1045.6	1046.7
15°	1021.1	1022.2	1023.2	1032.8	1033.9
17.5°	1000.9	1004.1	1006.2	1017.9	1020.0
20°	979.5	982.7	987.0	999.8	1001.9
22.5°	955.0	959.3	966.8	980.6	983.8
25°	929.4	933.7	943.3	959.3	962.5
27.5°	900.7	907.1	918.8	935.8	940.1
30°	870.8	877.2	891.1	909.2	915.6
32.5°	838.8	847.4	863.4	883.6	890.0
35°	805.8	815.4	832.4	854.8	863.4
37.5°	770.6	781.3	801.5	826.1	836.7
40°	734.4	747.2	768.5	797.3	809.0
42.5°	698.1	709.9	736.5	767.4	780.2
45°	660.8	674.7	702.4	737.6	750.4
47.5°	622.5	636.3	669.4	706.7	718.4
50°	584.1	598.0	635.3	674.7	688.6
52.5°	542.5	560.7	603.3	642.7	656.6
55°	505.2	522.3	566.0	610.7	625.7
57.5°	462.6	482.8	530.8	577.7	593.7
60°	423.2	444.5	495.6	543.6	559.6
62.5°	382.6	406.1	460.5	509.5	527.6
65°	338.9	367.7	425.3	475.4	493.5
67.5°	299.5	329.4	390.1	441.3	457.3
70°	254.7	291.0	352.8	404.0	422.1
72.5°	216.4	252.6	317.6	367.7	385.8
75°	175.9	215.3	280.3	330.4	346.4
77.5°	135.4	179.1	244.1	282.5	287.8
80°	97.0	142.8	202.5	224.9	232.4
82.5°	68.2	109.8	149.2	164.1	168.4
85°	37.3	72.5	93.8	100.2	100.2
87.5°	16.0	30.9	37.3	38.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)