

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: P263410

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3487.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

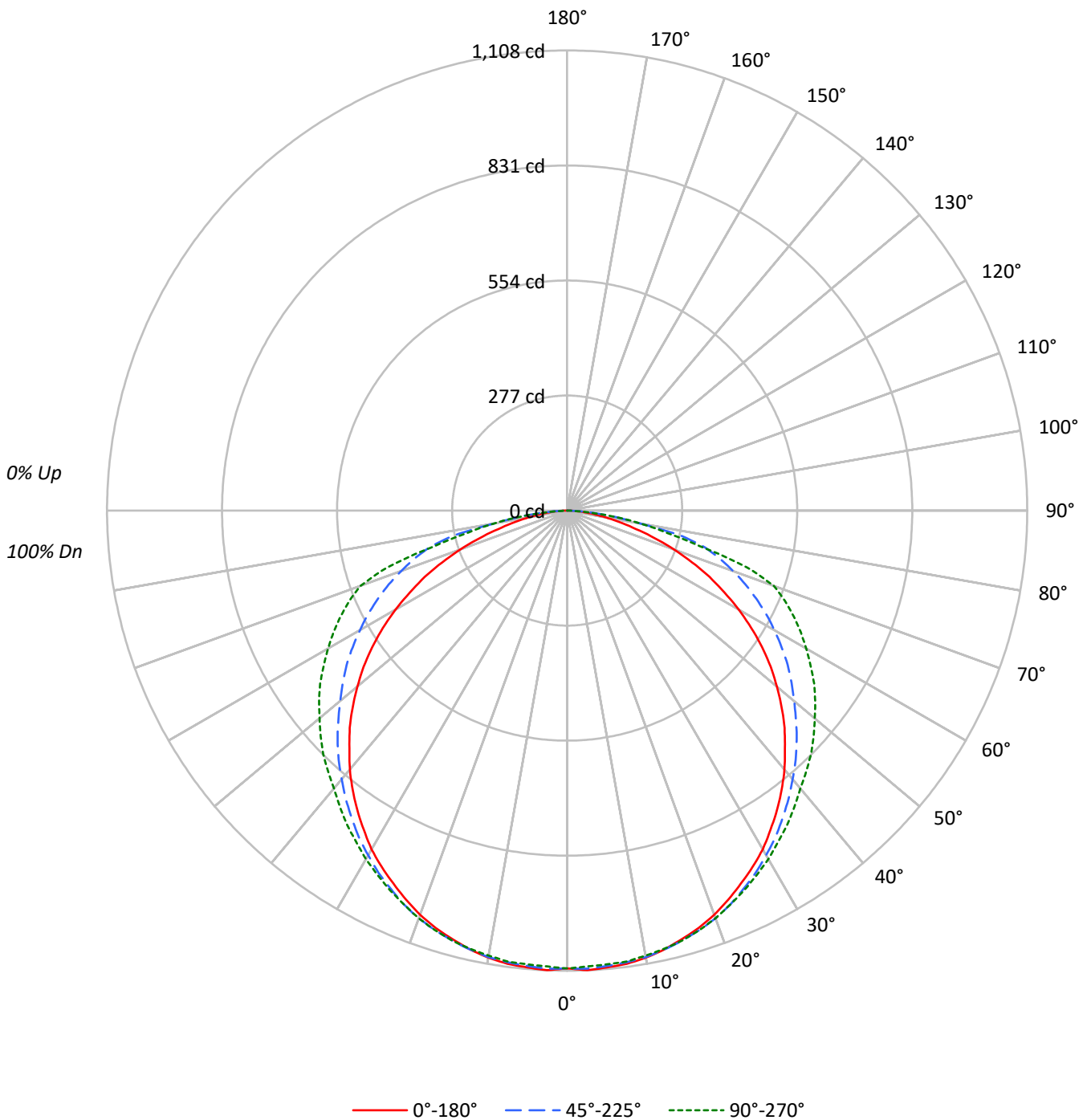
Input Watts (W): 41.943
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1483	1483	1483
5°	1491	1486	1482
10°	1494	1491	1486
15°	1488	1493	1493
20°	1483	1496	1496
25°	1471	1492	1497
30°	1464	1489	1505
35°	1447	1485	1518
40°	1430	1484	1534
45°	1409	1487	1580
50°	1380	1493	1629
55°	1344	1521	1703
60°	1284	1551	1788
65°	1204	1600	1915
70°	1077	1672	2083
75°	889	1788	1723
80°	726	1382	1395
85°	584	917	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.0
10°-20°	302.1	8.7
20°-30°	461.7	13.2
30°-40°	564.7	16.2
40°-50°	604.2	17.3
50°-60°	578.6	16.6
60°-70°	489.4	14.0
70°-80°	310.2	8.9
80°-90°	71.4	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°	868.5	24.9
0°-40°	1433.2	41.1
0°-60°	2616.0	75.0
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1104	1099	1100	1099	1097	105
15°	1068	1066	1072	1072	1072	302
25°	991	991	1005	1009	1009	457
35°	881	886	904	917	924	551
45°	740	753	782	814	830	570
55°	573	591	648	702	726	511
65°	378	414	502	571	602	373
75°	171	241	344	342	331	186
85°	38	58	59	54	56	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.3	1102.3	1102.3	1102.3	1102.3
2.5°	1107.7	1102.3	1104.1	1102.3	1098.7
5°	1104.1	1098.7	1100.5	1098.7	1096.9
7.5°	1100.5	1095.1	1096.9	1095.1	1095.1
10°	1093.3	1087.9	1091.5	1089.7	1087.9
12.5°	1082.5	1078.9	1082.5	1080.7	1080.7
15°	1068.1	1066.3	1071.7	1071.7	1071.7
17.5°	1053.7	1051.9	1059.1	1059.1	1059.1
20°	1035.7	1033.9	1044.7	1044.7	1044.7
22.5°	1014.0	1012.2	1026.7	1026.7	1026.7
25°	990.6	990.6	1005.0	1008.6	1008.6
27.5°	967.2	967.2	983.4	988.8	988.8
30°	942.0	942.0	958.2	965.4	969.0
32.5°	911.4	915.0	933.0	942.0	945.6
35°	880.8	886.2	904.2	916.8	924.0
37.5°	848.3	853.7	875.4	889.8	898.8
40°	814.1	821.3	844.7	862.8	873.6
42.5°	776.3	787.1	814.1	837.5	851.9
45°	740.3	752.9	781.7	814.1	830.3
47.5°	700.6	715.1	747.5	788.9	805.1
50°	659.2	673.6	713.3	760.1	778.1
52.5°	617.8	634.0	680.8	731.3	752.9
55°	572.8	590.8	648.4	702.4	725.9
57.5°	525.9	547.6	612.4	670.0	695.2
60°	477.3	504.3	576.4	637.6	664.6
62.5°	426.9	459.3	540.3	605.2	634.0
65°	378.2	414.3	502.5	571.0	601.6
67.5°	326.0	371.0	464.7	538.5	567.4
70°	273.8	326.0	425.1	500.7	529.5
72.5°	221.5	284.6	385.4	453.9	453.9
75°	171.1	241.4	344.0	342.2	331.4
77.5°	129.7	201.7	282.8	241.4	243.2
80°	93.7	162.1	178.3	178.3	180.1
82.5°	63.0	124.3	115.3	113.5	117.1
85°	37.8	57.6	59.4	54.0	55.8
87.5°	18.0	19.8	16.2	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)