

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: P263266

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263266
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-LD5-50-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3478.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

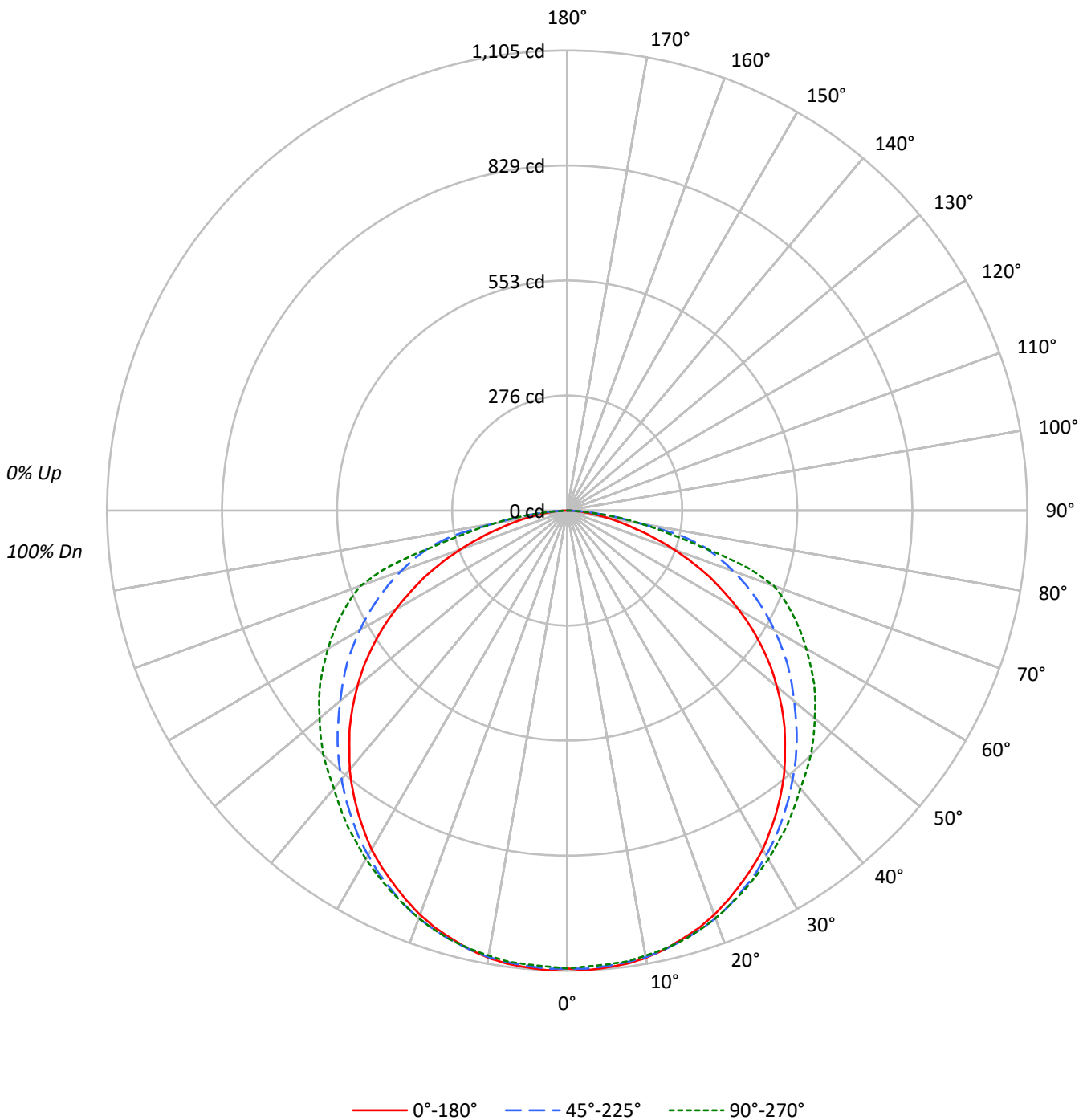
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1479	1479	1479
5°	1487	1483	1478
10°	1490	1487	1483
15°	1484	1489	1489
20°	1479	1492	1492
25°	1467	1488	1493
30°	1460	1485	1502
35°	1443	1481	1514
40°	1426	1480	1530
45°	1405	1484	1576
50°	1376	1489	1625
55°	1340	1517	1698
60°	1281	1547	1784
65°	1201	1596	1910
70°	1074	1668	2078
75°	887	1784	1719
80°	724	1378	1392
85°	582	915	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.0
10°-20°	301.3	8.7
20°-30°	460.5	13.2
30°-40°	563.2	16.2
40°-50°	602.6	17.3
50°-60°	577.1	16.6
60°-70°	488.2	14.0
70°-80°	309.4	8.9
80°-90°	71.2	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°	866.2	24.9
0°-40°	1429.5	41.1
0°-60°	2609.2	75.0
0°-90°	3478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1101	1096	1098	1096	1094	105
15°	1065	1064	1069	1069	1069	301
25°	988	988	1002	1006	1006	456
35°	878	884	902	914	922	550
45°	738	751	780	812	828	569
55°	571	589	647	701	724	510
65°	377	413	501	570	600	372
75°	171	241	343	341	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°	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1104.9	1099.5	1101.3	1099.5	1095.9
5°	1101.3	1095.9	1097.7	1095.9	1094.1
7.5°	1097.7	1092.3	1094.1	1092.3	1092.3
10°	1090.5	1085.1	1088.7	1086.9	1085.1
12.5°	1079.7	1076.1	1079.7	1077.9	1077.9
15°	1065.3	1063.5	1068.9	1068.9	1068.9
17.5°	1051.0	1049.2	1056.3	1056.3	1056.3
20°	1033.0	1031.2	1042.0	1042.0	1042.0
22.5°	1011.4	1009.6	1024.0	1024.0	1024.0
25°	988.1	988.1	1002.4	1006.0	1006.0
27.5°	964.7	964.7	980.9	986.3	986.3
30°	939.6	939.6	955.7	962.9	966.5
32.5°	909.0	912.6	930.6	939.6	943.2
35°	878.5	883.9	901.8	914.4	921.6
37.5°	846.2	851.5	873.1	887.5	896.5
40°	812.0	819.2	842.6	860.5	871.3
42.5°	774.3	785.1	812.0	835.4	849.7
45°	738.4	750.9	779.7	812.0	828.2
47.5°	698.8	713.2	745.5	786.9	803.0
50°	657.5	671.9	711.4	758.1	776.1
52.5°	616.2	632.4	679.1	729.4	750.9
55°	571.3	589.3	646.7	700.6	724.0
57.5°	524.6	546.1	610.8	668.3	693.5
60°	476.1	503.0	574.9	636.0	662.9
62.5°	425.8	458.1	539.0	603.6	632.4
65°	377.3	413.2	501.2	569.5	600.0
67.5°	325.2	370.1	463.5	537.2	565.9
70°	273.1	325.2	424.0	499.4	528.2
72.5°	221.0	283.8	384.5	452.7	452.7
75°	170.7	240.7	343.1	341.3	330.6
77.5°	129.3	201.2	282.1	240.7	242.5
80°	93.4	161.7	177.9	177.9	179.7
82.5°	62.9	124.0	115.0	113.2	116.8
85°	37.7	57.5	59.3	53.9	55.7
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)