

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: P263422

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263422
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-LD5-65-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3702.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

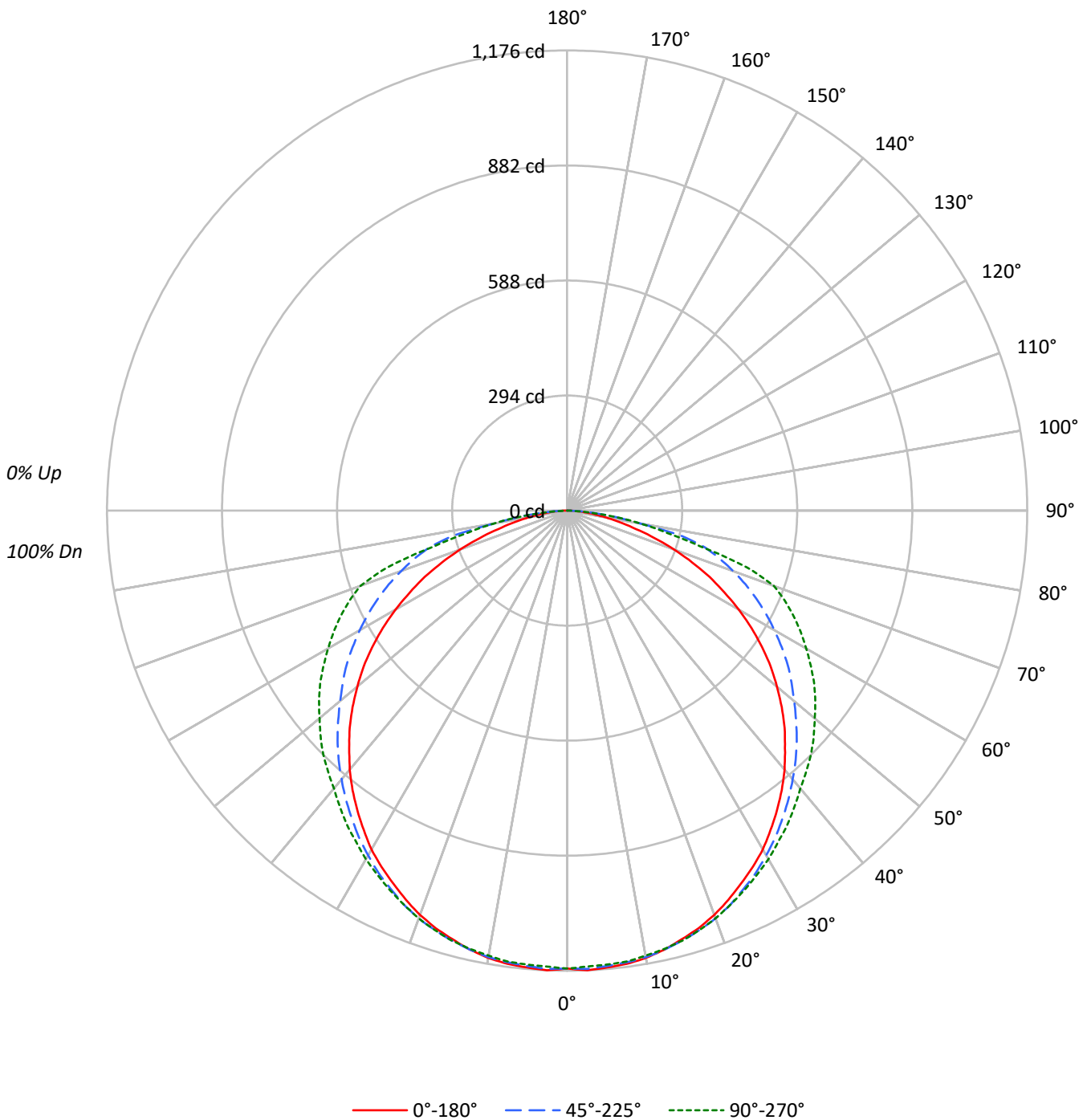
Input Watts (W): 49.011
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1575	1575	1575
5°	1583	1578	1573
10°	1586	1583	1578
15°	1579	1585	1585
20°	1574	1588	1588
25°	1561	1584	1590
30°	1554	1581	1598
35°	1536	1577	1611
40°	1518	1575	1629
45°	1495	1579	1677
50°	1465	1585	1729
55°	1426	1615	1808
60°	1364	1647	1899
65°	1279	1699	2033
70°	1144	1775	2212
75°	945	1899	1829
80°	770	1467	1481
85°	621	974	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.0
10°-20°	320.7	8.7
20°-30°	490.2	13.2
30°-40°	599.5	16.2
40°-50°	641.5	17.3
50°-60°	614.3	16.6
60°-70°	519.6	14.0
70°-80°	329.4	8.9
80°-90°	75.8	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°	922.0	24.9
0°-40°	1521.5	41.1
0°-60°	2777.2	75.0
0°-90°	3702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1172	1166	1168	1166	1164	112
15°	1134	1132	1138	1138	1138	320
25°	1052	1052	1067	1071	1071	485
35°	935	941	960	973	981	585
45°	786	799	830	864	882	605
55°	608	627	688	746	771	542
65°	402	440	534	606	639	396
75°	182	256	365	363	352	198
85°	40	61	63	57	59	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.3	1170.3	1170.3	1170.3	1170.3
2.5°	1176.0	1170.3	1172.2	1170.3	1166.4
5°	1172.2	1166.4	1168.4	1166.4	1164.5
7.5°	1168.4	1162.6	1164.5	1162.6	1162.6
10°	1160.7	1155.0	1158.8	1156.9	1155.0
12.5°	1149.2	1145.4	1149.2	1147.3	1147.3
15°	1133.9	1132.0	1137.8	1137.8	1137.8
17.5°	1118.6	1116.7	1124.4	1124.4	1124.4
20°	1099.5	1097.6	1109.1	1109.1	1109.1
22.5°	1076.6	1074.7	1090.0	1090.0	1090.0
25°	1051.7	1051.7	1067.0	1070.8	1070.8
27.5°	1026.9	1026.9	1044.1	1049.8	1049.8
30°	1000.1	1000.1	1017.3	1024.9	1028.8
32.5°	967.6	971.4	990.5	1000.1	1003.9
35°	935.1	940.8	959.9	973.3	981.0
37.5°	900.7	906.4	929.3	944.6	954.2
40°	864.3	872.0	896.8	915.9	927.4
42.5°	824.2	835.6	864.3	889.2	904.5
45°	785.9	799.3	829.9	864.3	881.5
47.5°	743.8	759.1	793.6	837.5	854.8
50°	699.9	715.2	757.2	807.0	826.1
52.5°	655.9	673.1	722.8	776.4	799.3
55°	608.1	627.2	688.4	745.8	770.6
57.5°	558.4	581.3	650.2	711.3	738.1
60°	506.7	535.4	611.9	676.9	705.6
62.5°	453.2	487.6	573.7	642.5	673.1
65°	401.6	439.8	533.5	606.2	638.7
67.5°	346.1	393.9	493.3	571.8	602.3
70°	290.7	346.1	451.3	531.6	562.2
72.5°	235.2	302.1	409.2	481.9	481.9
75°	181.7	256.2	365.2	363.3	351.8
77.5°	137.7	214.2	300.2	256.2	258.1
80°	99.4	172.1	189.3	189.3	191.2
82.5°	66.9	131.9	122.4	120.5	124.3
85°	40.2	61.2	63.1	57.4	59.3
87.5°	19.1	21.0	17.2	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)