

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: P263094

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263094
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3494.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

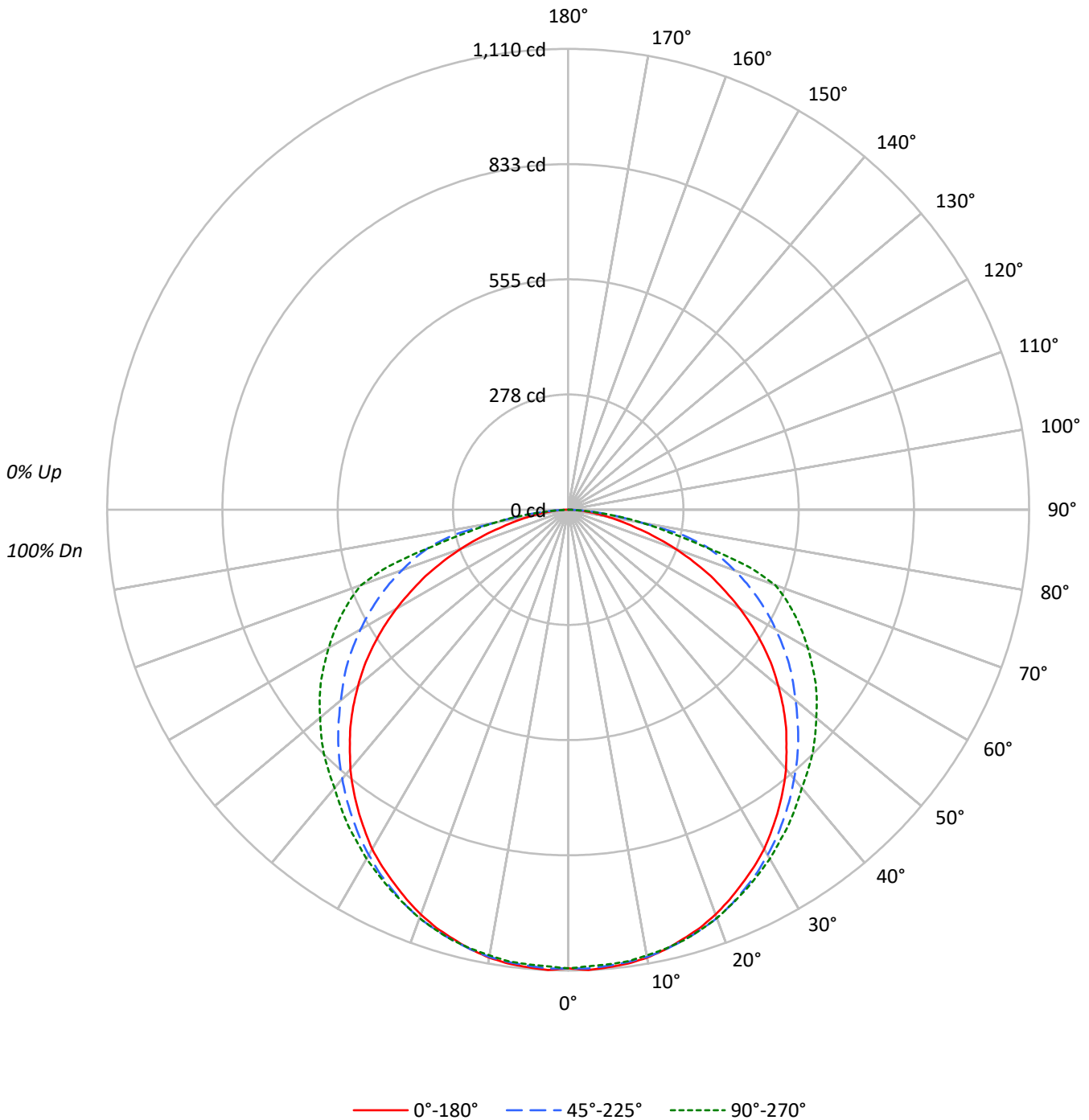
Input Watts (W): 36.533376
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1486	1486	1486
5°	1494	1489	1484
10°	1497	1494	1489
15°	1491	1496	1496
20°	1486	1499	1499
25°	1474	1495	1500
30°	1466	1492	1509
35°	1450	1488	1521
40°	1433	1487	1537
45°	1412	1490	1583
50°	1383	1496	1632
55°	1346	1524	1706
60°	1287	1554	1792
65°	1207	1603	1919
70°	1079	1675	2087
75°	892	1792	1726
80°	727	1385	1399
85°	585	920	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.0
10°-20°	302.7	8.7
20°-30°	462.6	13.2
30°-40°	565.8	16.2
40°-50°	605.4	17.3
50°-60°	579.7	16.6
60°-70°	490.4	14.0
70°-80°	310.9	8.9
80°-90°	71.5	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°	870.2	24.9
0°-40°	1436.0	41.1
0°-60°	2621.2	75.0
0°-90°	3494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1106	1101	1103	1101	1099	105
15°	1070	1068	1074	1074	1074	302
25°	993	993	1007	1011	1011	458
35°	882	888	906	919	926	552
45°	742	754	783	816	832	571
55°	574	592	650	704	727	512
65°	379	415	504	572	603	373
75°	172	242	345	343	332	186
85°	38	58	60	54	56	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1109.9	1104.5	1106.3	1104.5	1100.9
5°	1106.3	1100.9	1102.7	1100.9	1099.1
7.5°	1102.7	1097.3	1099.1	1097.3	1097.3
10°	1095.5	1090.1	1093.7	1091.9	1090.1
12.5°	1084.7	1081.1	1084.7	1082.9	1082.9
15°	1070.2	1068.4	1073.8	1073.8	1073.8
17.5°	1055.8	1054.0	1061.2	1061.2	1061.2
20°	1037.7	1035.9	1046.8	1046.8	1046.8
22.5°	1016.1	1014.3	1028.7	1028.7	1028.7
25°	992.6	992.6	1007.1	1010.7	1010.7
27.5°	969.2	969.2	985.4	990.8	990.8
30°	943.9	943.9	960.1	967.4	971.0
32.5°	913.2	916.8	934.9	943.9	947.5
35°	882.5	887.9	906.0	918.6	925.8
37.5°	850.0	855.5	877.1	891.6	900.6
40°	815.8	823.0	846.4	864.5	875.3
42.5°	777.9	788.7	815.8	839.2	853.7
45°	741.8	754.4	783.3	815.8	832.0
47.5°	702.1	716.5	749.0	790.5	806.7
50°	660.5	675.0	714.7	761.6	779.7
52.5°	619.0	635.3	682.2	732.7	754.4
55°	573.9	592.0	649.7	703.9	727.3
57.5°	527.0	548.6	613.6	671.4	696.6
60°	478.3	505.3	577.5	638.9	666.0
62.5°	427.7	460.2	541.4	606.4	635.3
65°	379.0	415.1	503.5	572.1	602.8
67.5°	326.7	371.8	465.6	539.6	568.5
70°	274.3	326.7	425.9	501.7	530.6
72.5°	222.0	285.2	386.2	454.8	454.8
75°	171.5	241.8	344.7	342.9	332.1
77.5°	129.9	202.1	283.3	241.8	243.6
80°	93.8	162.4	178.7	178.7	180.5
82.5°	63.2	124.5	115.5	113.7	117.3
85°	37.9	57.8	59.6	54.1	55.9
87.5°	18.0	19.9	16.2	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)