

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: P263144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263144
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-LD5-50SE-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

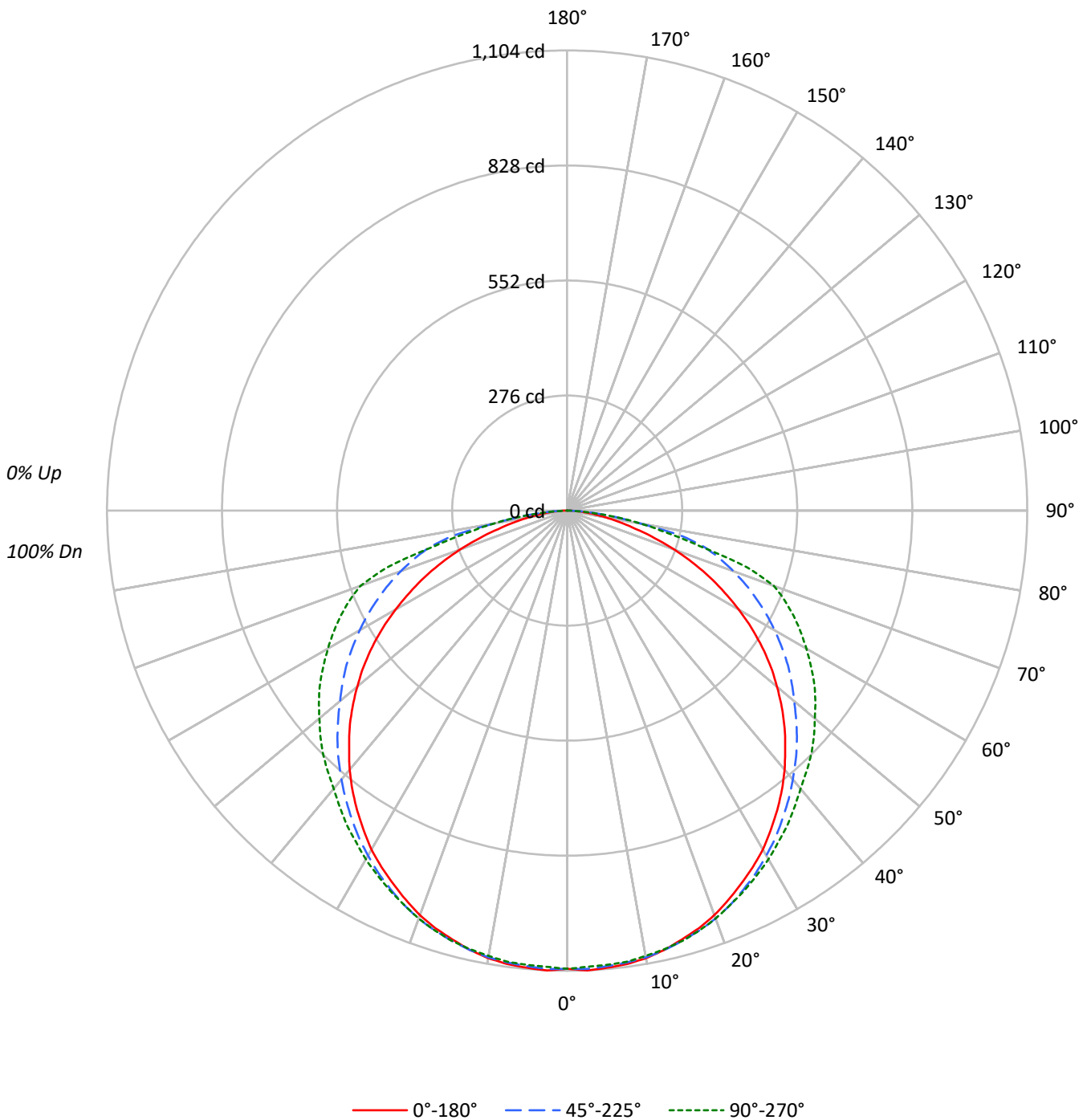
Input Watts (W): 40.624353
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	1482	1477
10°	1489	1487	1482
15°	1483	1489	1489
20°	1479	1492	1492
25°	1466	1488	1493
30°	1459	1485	1501
35°	1442	1481	1513
40°	1426	1479	1530
45°	1405	1483	1576
50°	1376	1489	1624
55°	1340	1517	1698
60°	1281	1547	1783
65°	1201	1595	1910
70°	1074	1668	2077
75°	887	1783	1718
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°	301.2	8.7
20°-30°	460.4	13.2
30°-40°	563.1	16.2
40°-50°	602.5	17.3
50°-60°	576.9	16.6
60°-70°	488.0	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°	866.0	24.9
0°-40°	1429.1	41.1
0°-60°	2608.5	75.0
0°-90°	3477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1101	1096	1097	1096	1094	105
15°	1065	1063	1069	1069	1069	301
25°	988	988	1002	1006	1006	456
35°	878	884	902	914	921	549
45°	738	751	780	812	828	569
55°	571	589	647	700	724	509
65°	377	413	501	569	600	372
75°	171	241	343	341	330	185
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°	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1104.5	1099.1	1100.9	1099.1	1095.6
5°	1100.9	1095.6	1097.3	1095.6	1093.8
7.5°	1097.3	1092.0	1093.8	1092.0	1092.0
10°	1090.2	1084.8	1088.4	1086.6	1084.8
12.5°	1079.4	1075.8	1079.4	1077.6	1077.6
15°	1065.0	1063.2	1068.6	1068.6	1068.6
17.5°	1050.7	1048.9	1056.0	1056.0	1056.0
20°	1032.7	1030.9	1041.7	1041.7	1041.7
22.5°	1011.1	1009.3	1023.7	1023.7	1023.7
25°	987.8	987.8	1002.2	1005.8	1005.8
27.5°	964.4	964.4	980.6	986.0	986.0
30°	939.3	939.3	955.5	962.6	966.2
32.5°	908.8	912.4	930.3	939.3	942.9
35°	878.2	883.6	901.6	914.2	921.3
37.5°	845.9	851.3	872.9	887.2	896.2
40°	811.8	819.0	842.3	860.3	871.1
42.5°	774.1	784.8	811.8	835.1	849.5
45°	738.2	750.7	779.5	811.8	828.0
47.5°	698.6	713.0	745.3	786.6	802.8
50°	657.3	671.7	711.2	757.9	775.9
52.5°	616.0	632.2	678.9	729.2	750.7
55°	571.1	589.1	646.6	700.4	723.8
57.5°	524.4	546.0	610.6	668.1	693.3
60°	475.9	502.9	574.7	635.8	662.7
62.5°	425.6	458.0	538.8	603.5	632.2
65°	377.2	413.1	501.1	569.3	599.9
67.5°	325.1	370.0	463.4	537.0	565.7
70°	273.0	325.1	423.9	499.3	528.0
72.5°	220.9	283.8	384.3	452.6	452.6
75°	170.6	240.7	343.0	341.2	330.5
77.5°	129.3	201.2	282.0	240.7	242.5
80°	93.4	161.6	177.8	177.8	179.6
82.5°	62.9	123.9	114.9	113.1	116.7
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)