

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: P263356

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263356
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-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3461.0 lumens
Efficiency: N/A
Efficacy: 83.4 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

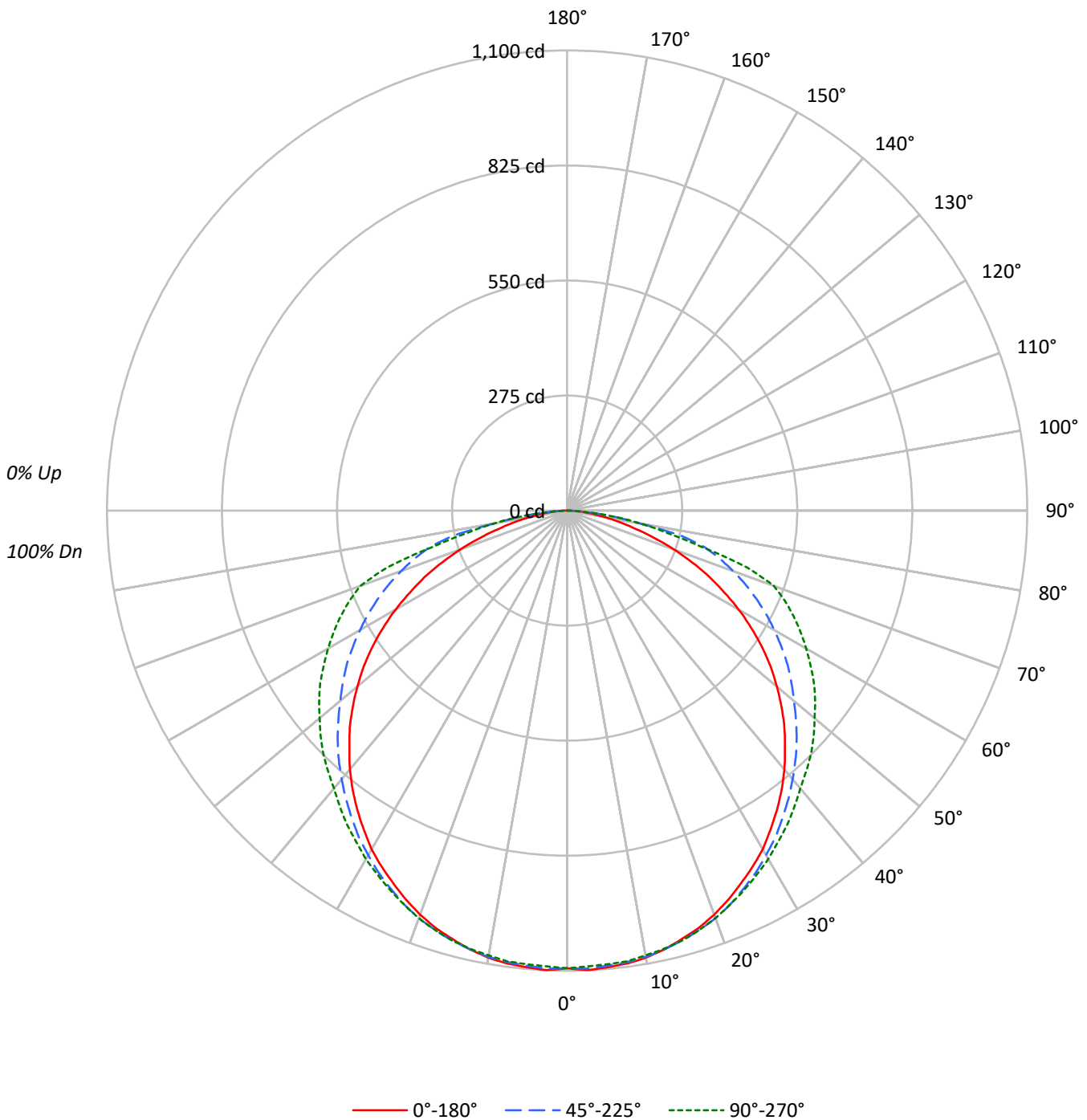
Input Watts (W): 41.478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1472	1472	1472
5°	1480	1475	1470
10°	1483	1480	1475
15°	1477	1482	1482
20°	1472	1485	1485
25°	1460	1481	1486
30°	1453	1478	1494
35°	1436	1474	1506
40°	1419	1473	1523
45°	1398	1476	1568
50°	1370	1482	1617
55°	1334	1510	1690
60°	1275	1540	1775
65°	1195	1588	1901
70°	1069	1660	2068
75°	883	1775	1710
80°	721	1371	1385
85°	579	911	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.0
10°-20°	299.8	8.7
20°-30°	458.3	13.2
30°-40°	560.5	16.2
40°-50°	599.7	17.3
50°-60°	574.3	16.6
60°-70°	485.8	14.0
70°-80°	307.9	8.9
80°-90°	70.8	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°	862.0	24.9
0°-40°	1422.5	41.1
0°-60°	2596.5	75.0
0°-90°	3461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1096	1090	1092	1090	1089	104
15°	1060	1058	1064	1064	1064	299
25°	983	983	998	1001	1001	454
35°	874	880	897	910	917	547
45°	735	747	776	808	824	566
55°	568	586	644	697	720	507
65°	375	411	499	567	597	370
75°	170	240	342	340	329	185
85°	38	57	59	54	55	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1099.5	1094.1	1095.9	1094.1	1090.5
5°	1095.9	1090.5	1092.3	1090.5	1088.7
7.5°	1092.3	1086.9	1088.7	1086.9	1086.9
10°	1085.1	1079.8	1083.4	1081.6	1079.8
12.5°	1074.4	1070.8	1074.4	1072.6	1072.6
15°	1060.1	1058.3	1063.7	1063.7	1063.7
17.5°	1045.8	1044.0	1051.2	1051.2	1051.2
20°	1027.9	1026.2	1036.9	1036.9	1036.9
22.5°	1006.5	1004.7	1019.0	1019.0	1019.0
25°	983.2	983.2	997.5	1001.1	1001.1
27.5°	960.0	960.0	976.1	981.5	981.5
30°	935.0	935.0	951.1	958.2	961.8
32.5°	904.6	908.2	926.0	935.0	938.6
35°	874.2	879.6	897.4	910.0	917.1
37.5°	842.0	847.4	868.8	883.1	892.1
40°	808.1	815.2	838.4	856.3	867.0
42.5°	770.5	781.2	808.1	831.3	845.6
45°	734.8	747.3	775.9	808.1	824.1
47.5°	695.4	709.7	741.9	783.0	799.1
50°	654.3	668.6	707.9	754.4	772.3
52.5°	613.2	629.3	675.8	725.8	747.3
55°	568.5	586.4	643.6	697.2	720.5
57.5°	522.0	543.5	607.8	665.0	690.1
60°	473.7	500.6	572.1	632.9	659.7
62.5°	423.7	455.9	536.3	600.7	629.3
65°	375.4	411.2	498.8	566.7	597.1
67.5°	323.6	368.3	461.2	534.5	563.1
70°	271.7	323.6	421.9	497.0	525.6
72.5°	219.9	282.5	382.6	450.5	450.5
75°	169.8	239.6	341.5	339.7	328.9
77.5°	128.7	200.2	280.7	239.6	241.3
80°	93.0	160.9	177.0	177.0	178.8
82.5°	62.6	123.4	114.4	112.6	116.2
85°	37.5	57.2	59.0	53.6	55.4
87.5°	17.9	19.7	16.1	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)