

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: P263093

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263093
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

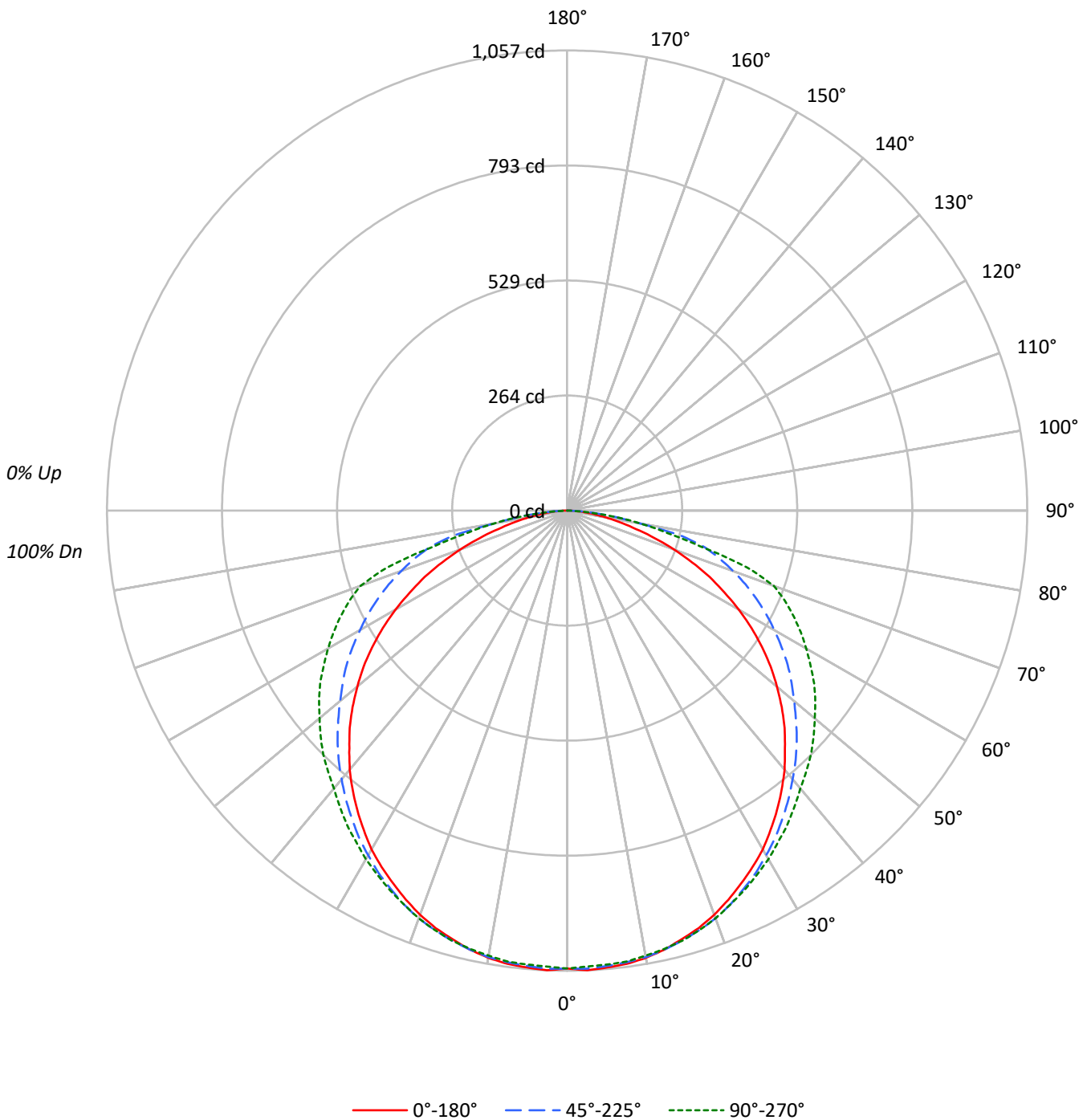
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1415	1415	1415
5°	1423	1418	1414
10°	1425	1423	1418
15°	1420	1424	1424
20°	1415	1427	1427
25°	1403	1424	1429
30°	1396	1420	1436
35°	1380	1417	1448
40°	1364	1416	1464
45°	1344	1419	1507
50°	1317	1424	1554
55°	1282	1451	1625
60°	1225	1480	1706
65°	1149	1527	1827
70°	1028	1596	1987
75°	849	1706	1644
80°	693	1318	1332
85°	557	875	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.0
10°-20°	288.2	8.7
20°-30°	440.5	13.2
30°-40°	538.8	16.2
40°-50°	576.5	17.3
50°-60°	552.0	16.6
60°-70°	467.0	14.0
70°-80°	296.0	8.9
80°-90°	68.1	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°	828.6	24.9
0°-40°	1367.4	41.1
0°-60°	2495.9	75.0
0°-90°	3327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1053	1048	1050	1048	1047	100
15°	1019	1017	1022	1022	1022	288
25°	945	945	959	962	962	436
35°	840	846	863	875	882	526
45°	706	718	746	777	792	544
55°	546	564	619	670	693	487
65°	361	395	480	545	574	355
75°	163	230	328	326	316	178
85°	36	55	57	52	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.7	1051.7	1051.7	1051.7	1051.7
2.5°	1056.9	1051.7	1053.4	1051.7	1048.3
5°	1053.4	1048.3	1050.0	1048.3	1046.6
7.5°	1050.0	1044.9	1046.6	1044.9	1044.9
10°	1043.1	1038.0	1041.4	1039.7	1038.0
12.5°	1032.8	1029.4	1032.8	1031.1	1031.1
15°	1019.1	1017.4	1022.5	1022.5	1022.5
17.5°	1005.3	1003.6	1010.5	1010.5	1010.5
20°	988.1	986.4	996.7	996.7	996.7
22.5°	967.5	965.8	979.5	979.5	979.5
25°	945.2	945.2	958.9	962.4	962.4
27.5°	922.8	922.8	938.3	943.5	943.5
30°	898.8	898.8	914.2	921.1	924.6
32.5°	869.6	873.0	890.2	898.8	902.2
35°	840.4	845.5	862.7	874.7	881.6
37.5°	809.4	814.6	835.2	848.9	857.5
40°	776.8	783.6	806.0	823.2	833.5
42.5°	740.7	751.0	776.8	799.1	812.9
45°	706.3	718.3	745.8	776.8	792.2
47.5°	668.5	682.2	713.2	752.7	768.2
50°	629.0	642.7	680.5	725.2	742.4
52.5°	589.4	604.9	649.6	697.7	718.3
55°	546.5	563.7	618.7	670.2	692.6
57.5°	501.8	522.4	584.3	639.3	663.3
60°	455.4	481.2	549.9	608.4	634.1
62.5°	407.3	438.2	515.6	577.4	604.9
65°	360.9	395.3	479.5	544.8	574.0
67.5°	311.0	354.0	443.4	513.8	541.3
70°	261.2	311.0	405.6	477.7	505.2
72.5°	211.4	271.5	367.8	433.1	433.1
75°	163.3	230.3	328.2	326.5	316.2
77.5°	123.7	192.5	269.8	230.3	232.0
80°	89.4	154.7	170.1	170.1	171.9
82.5°	60.1	118.6	110.0	108.3	111.7
85°	36.1	55.0	56.7	51.6	53.3
87.5°	17.2	18.9	15.5	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)