

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: P263084

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263084
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-LD5-40-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: 2831.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

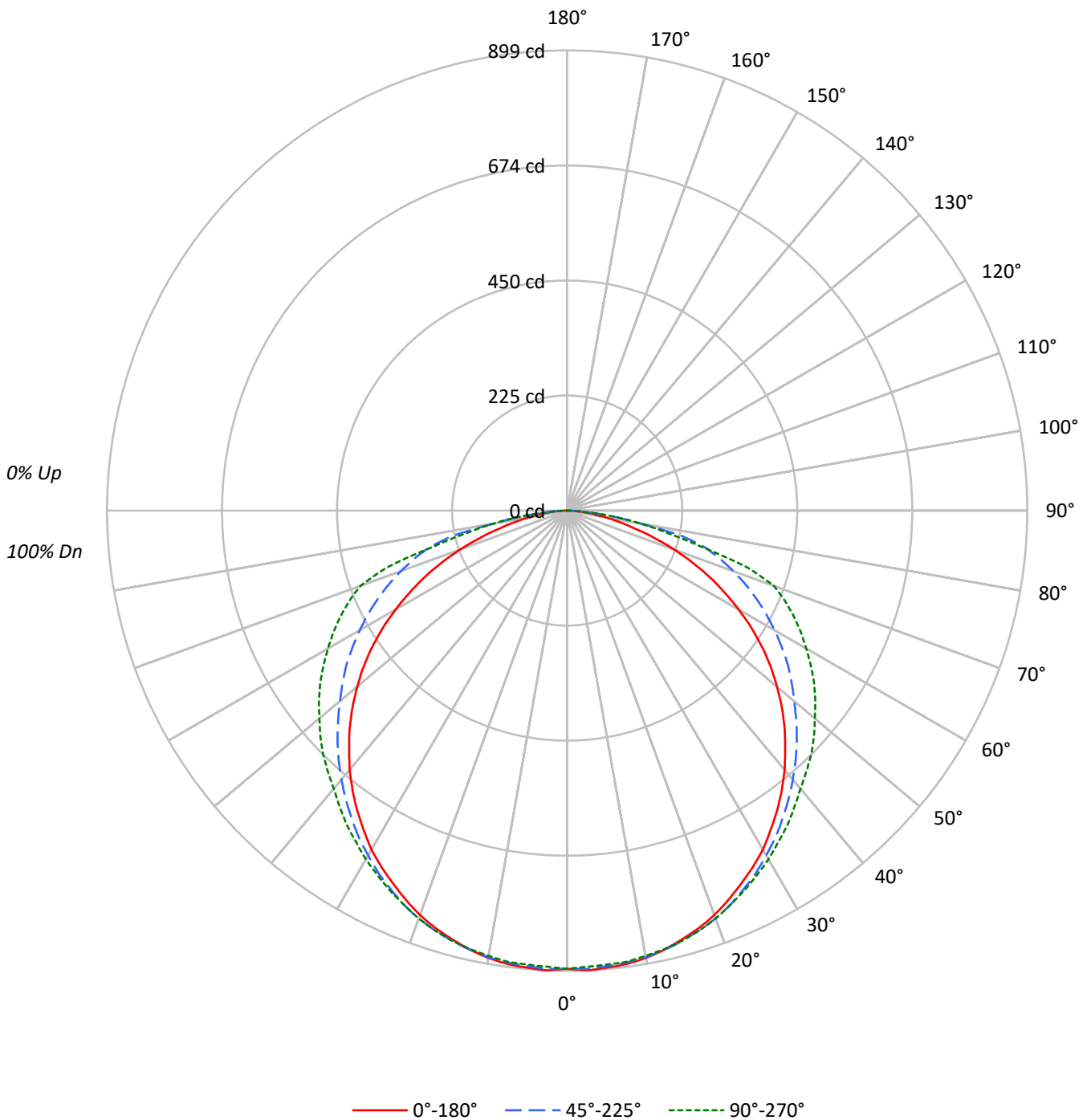
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1204	1204	1204
5°	1211	1207	1203
10°	1213	1211	1207
15°	1208	1212	1212
20°	1204	1214	1214
25°	1194	1211	1216
30°	1188	1209	1222
35°	1175	1206	1232
40°	1161	1205	1246
45°	1144	1208	1283
50°	1120	1212	1322
55°	1091	1235	1382
60°	1043	1259	1452
65°	978	1299	1555
70°	875	1358	1691
75°	722	1452	1399
80°	589	1122	1133
85°	474	746	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.0
10°-20°	245.3	8.7
20°-30°	374.8	13.2
30°-40°	458.5	16.2
40°-50°	490.5	17.3
50°-60°	469.7	16.6
60°-70°	397.4	14.0
70°-80°	251.9	8.9
80°-90°	58.0	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°	705.1	24.9
0°-40°	1163.6	41.1
0°-60°	2123.8	75.0
0°-90°	2831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	896	892	894	892	890	85
15°	867	866	870	870	870	245
25°	804	804	816	819	819	371
35°	715	720	734	744	750	447
45°	601	611	635	661	674	463
55°	465	480	526	570	589	415
65°	307	336	408	464	488	303
75°	139	196	279	278	269	151
85°	31	47	48	44	45	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.9	894.9	894.9	894.9	894.9
2.5°	899.3	894.9	896.4	894.9	892.0
5°	896.4	892.0	893.5	892.0	890.5
7.5°	893.5	889.1	890.5	889.1	889.1
10°	887.6	883.2	886.2	884.7	883.2
12.5°	878.8	875.9	878.8	877.4	877.4
15°	867.1	865.7	870.1	870.1	870.1
17.5°	855.4	854.0	859.8	859.8	859.8
20°	840.8	839.4	848.1	848.1	848.1
22.5°	823.3	821.8	833.5	833.5	833.5
25°	804.3	804.3	816.0	818.9	818.9
27.5°	785.3	785.3	798.4	802.8	802.8
30°	764.8	764.8	777.9	783.8	786.7
32.5°	739.9	742.9	757.5	764.8	767.7
35°	715.1	719.5	734.1	744.3	750.2
37.5°	688.7	693.1	710.7	722.4	729.7
40°	661.0	666.8	685.8	700.4	709.2
42.5°	630.3	639.0	661.0	680.0	691.7
45°	601.0	611.2	634.6	661.0	674.1
47.5°	568.8	580.5	606.9	640.5	653.7
50°	535.2	546.9	579.1	617.1	631.7
52.5°	501.6	514.7	552.8	593.7	611.2
55°	465.0	479.6	526.4	570.3	589.3
57.5°	427.0	444.5	497.2	544.0	564.5
60°	387.5	409.4	467.9	517.7	539.6
62.5°	346.6	372.9	438.7	491.3	514.7
65°	307.1	336.3	408.0	463.6	488.4
67.5°	264.7	301.2	377.3	437.2	460.6
70°	222.3	264.7	345.1	406.5	429.9
72.5°	179.9	231.0	312.9	368.5	368.5
75°	138.9	195.9	279.3	277.8	269.1
77.5°	105.3	163.8	229.6	195.9	197.4
80°	76.0	131.6	144.8	144.8	146.2
82.5°	51.2	100.9	93.6	92.1	95.0
85°	30.7	46.8	48.3	43.9	45.3
87.5°	14.6	16.1	13.2	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)