

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: P275947

Luminaire Tested: **24CZ2-35-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

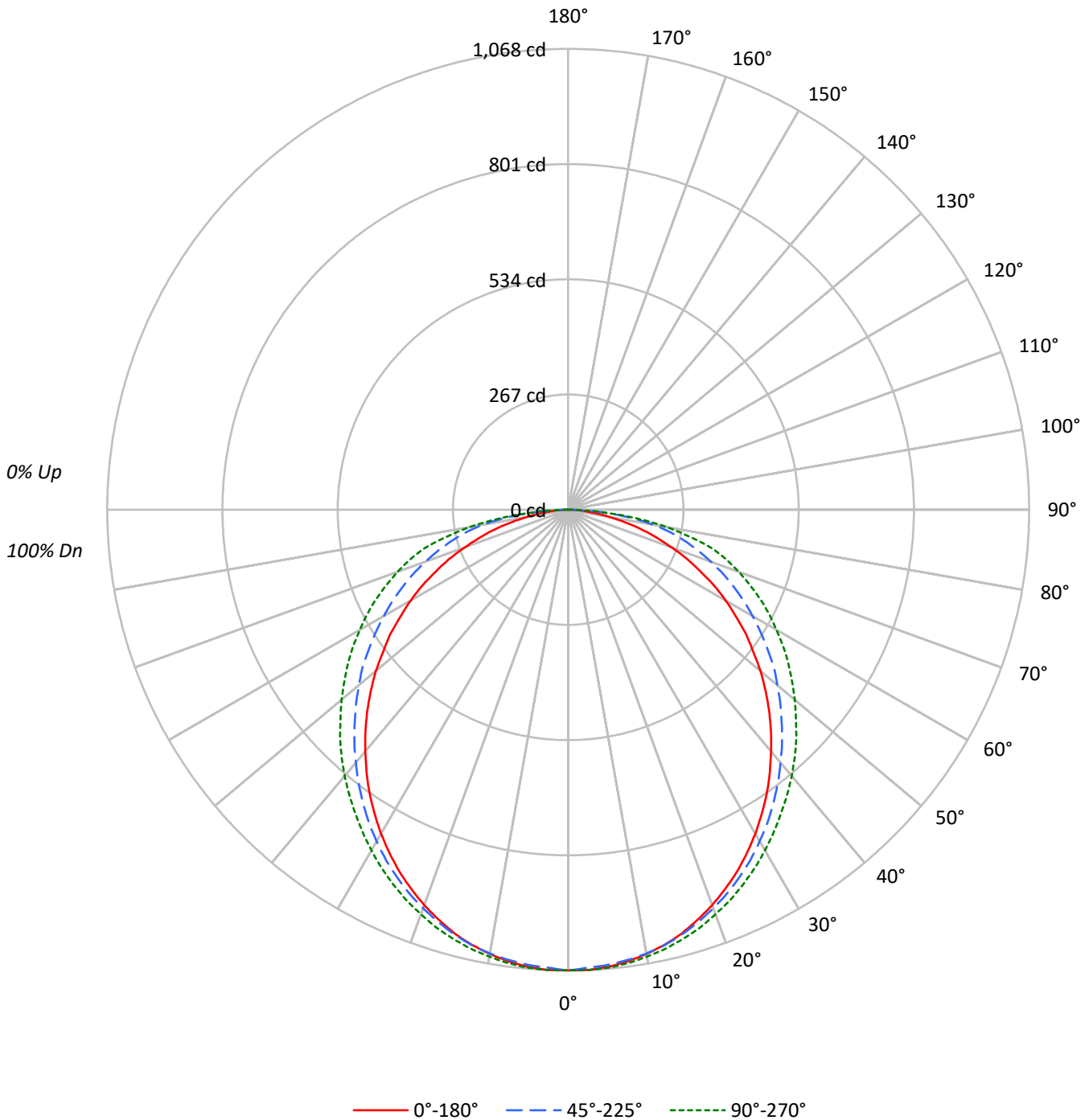
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	89	86	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	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1437	1437	1437
5°	1436	1431	1439
10°	1428	1427	1437
15°	1416	1419	1434
20°	1396	1407	1428
25°	1374	1394	1423
30°	1347	1379	1416
35°	1318	1362	1412
40°	1284	1344	1415
45°	1252	1331	1422
50°	1217	1324	1435
55°	1180	1322	1461
60°	1134	1328	1499
65°	1074	1348	1564
70°	998	1382	1653
75°	910	1451	1793
80°	748	1562	1793
85°	573	1442	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.2
10°-20°	288.3	9.1
20°-30°	433.8	13.6
30°-40°	519.9	16.3
40°-50°	541.8	17.0
50°-60°	504.1	15.9
60°-70°	415.1	13.1
70°-80°	282.7	8.9
80°-90°	93.3	2.9
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°	823.1	25.9
0°-40°	1343.0	42.2
0°-60°	2388.8	75.1
0°-90°	3180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1063	1063	1059	1064	1066	101
15°	1017	1018	1019	1028	1030	286
25°	926	930	939	955	958	426
35°	802	812	829	851	860	502
45°	658	672	699	734	747	507
55°	503	520	564	608	623	448
65°	338	366	424	473	491	335
75°	175	214	279	329	345	185
85°	37	72	93	100	100	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.7	1067.7	1067.7	1067.7	1067.7
2.5°	1067.7	1067.7	1062.4	1067.7	1067.7
5°	1063.4	1063.4	1059.2	1064.5	1065.6
7.5°	1056.0	1057.1	1052.8	1059.2	1060.2
10°	1045.4	1046.4	1044.3	1050.7	1051.8
12.5°	1032.7	1033.7	1033.7	1041.1	1042.2
15°	1016.7	1017.8	1018.9	1028.4	1029.5
17.5°	996.6	999.8	1001.9	1013.5	1015.7
20°	975.3	978.5	982.8	995.5	997.6
22.5°	950.9	955.2	962.6	976.4	979.6
25°	925.5	929.7	939.3	955.2	958.4
27.5°	896.8	903.2	914.8	931.8	936.1
30°	867.1	873.5	887.3	905.3	911.7
32.5°	835.2	843.7	859.7	879.8	886.2
35°	802.3	811.9	828.9	851.2	859.7
37.5°	767.3	777.9	798.1	822.5	833.1
40°	731.2	744.0	765.2	793.9	805.5
42.5°	695.2	706.8	733.4	764.1	776.9
45°	658.0	671.8	699.4	734.4	747.2
47.5°	619.8	633.6	666.5	703.6	715.3
50°	581.6	595.4	632.5	671.8	685.6
52.5°	540.2	558.2	600.7	640.0	653.8
55°	503.1	520.0	563.6	608.1	623.0
57.5°	460.6	480.8	528.5	575.2	591.1
60°	421.3	442.6	493.5	541.3	557.2
62.5°	381.0	404.4	458.5	507.3	525.3
65°	337.5	366.2	423.5	473.3	491.4
67.5°	298.2	327.9	388.4	439.4	455.3
70°	253.7	289.7	351.3	402.2	420.3
72.5°	215.4	251.5	316.3	366.2	384.2
75°	175.1	214.4	279.1	329.0	344.9
77.5°	134.8	178.3	243.0	281.2	286.6
80°	96.6	142.2	201.6	223.9	231.4
82.5°	67.9	109.3	148.6	163.4	167.7
85°	37.1	72.2	93.4	99.8	99.8
87.5°	15.9	30.8	37.1	38.2	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)