

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: P276191

Luminaire Tested: **24CZ2-35HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276191
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: 24CZ2-35HE-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3077.3 lumens
Efficiency: N/A
Efficacy: 124.4 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

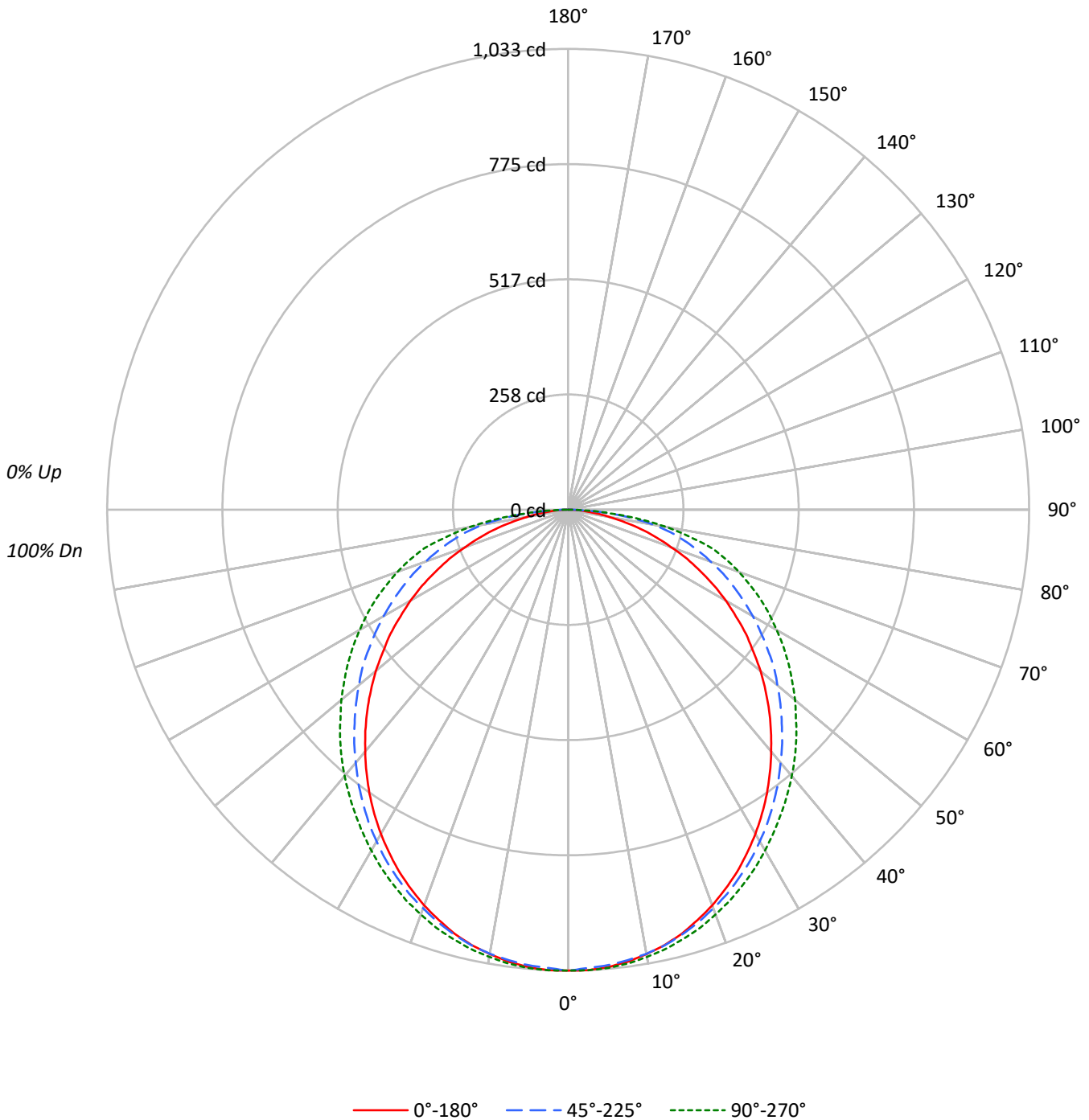
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1390	1390	1390
5°	1390	1384	1393
10°	1382	1381	1391
15°	1371	1373	1388
20°	1352	1362	1382
25°	1330	1349	1377
30°	1304	1334	1371
35°	1275	1317	1366
40°	1243	1301	1369
45°	1212	1288	1376
50°	1178	1281	1389
55°	1142	1279	1414
60°	1097	1285	1451
65°	1040	1305	1514
70°	966	1338	1600
75°	881	1404	1735
80°	724	1512	1735
85°	554	1396	1490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.2
10°-20°	279.0	9.1
20°-30°	419.8	13.6
30°-40°	503.1	16.3
40°-50°	524.3	17.0
50°-60°	487.8	15.9
60°-70°	401.8	13.1
70°-80°	273.6	8.9
80°-90°	90.3	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°	796.5	25.9
0°-40°	1299.6	42.2
0°-60°	2311.7	75.1
0°-90°	3077.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1029	1029	1025	1030	1031	98
15°	984	985	986	995	996	277
25°	896	900	909	924	927	412
35°	776	786	802	824	832	485
45°	637	650	677	711	723	491
55°	487	503	545	588	603	434
65°	327	354	410	458	476	324
75°	170	208	270	318	334	179
85°	36	70	90	96	96	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1033.2	1033.2	1028.1	1033.2	1033.2
5°	1029.1	1029.1	1025.0	1030.1	1031.2
7.5°	1021.9	1022.9	1018.8	1025.0	1026.0
10°	1011.6	1012.7	1010.6	1016.8	1017.8
12.5°	999.3	1000.3	1000.3	1007.5	1008.6
15°	983.9	984.9	986.0	995.2	996.2
17.5°	964.4	967.5	969.5	980.8	982.9
20°	943.9	946.9	951.0	963.4	965.4
22.5°	920.2	924.3	931.5	944.9	948.0
25°	895.6	899.7	908.9	924.3	927.4
27.5°	867.9	874.0	885.3	901.7	905.9
30°	839.1	845.3	858.6	876.1	882.2
32.5°	808.3	816.5	831.9	851.4	857.6
35°	776.4	785.7	802.1	823.7	831.9
37.5°	742.6	752.8	772.3	796.0	806.2
40°	707.6	720.0	740.5	768.2	779.5
42.5°	672.7	684.0	709.7	739.5	751.8
45°	636.8	650.1	676.8	710.7	723.0
47.5°	599.8	613.1	645.0	680.9	692.2
50°	562.8	576.2	612.1	650.1	663.5
52.5°	522.8	540.2	581.3	619.3	632.7
55°	486.8	503.3	545.4	588.5	602.9
57.5°	445.7	465.3	511.5	556.7	572.1
60°	407.7	428.3	477.6	523.8	539.2
62.5°	368.7	391.3	443.7	490.9	508.4
65°	326.6	354.3	409.8	458.1	475.5
67.5°	288.6	317.4	375.9	425.2	440.6
70°	245.5	280.4	340.0	389.2	406.7
72.5°	208.5	243.4	306.1	354.3	371.8
75°	169.5	207.5	270.1	318.4	333.8
77.5°	130.4	172.5	235.2	272.2	277.3
80°	93.5	137.6	195.1	216.7	223.9
82.5°	65.7	105.8	143.8	158.2	162.3
85°	35.9	69.8	90.4	96.5	96.5
87.5°	15.4	29.8	35.9	37.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)