

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: P275894

Luminaire Tested: **24CZ2-30HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275894
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: 24CZ2-30HE-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 151.8 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

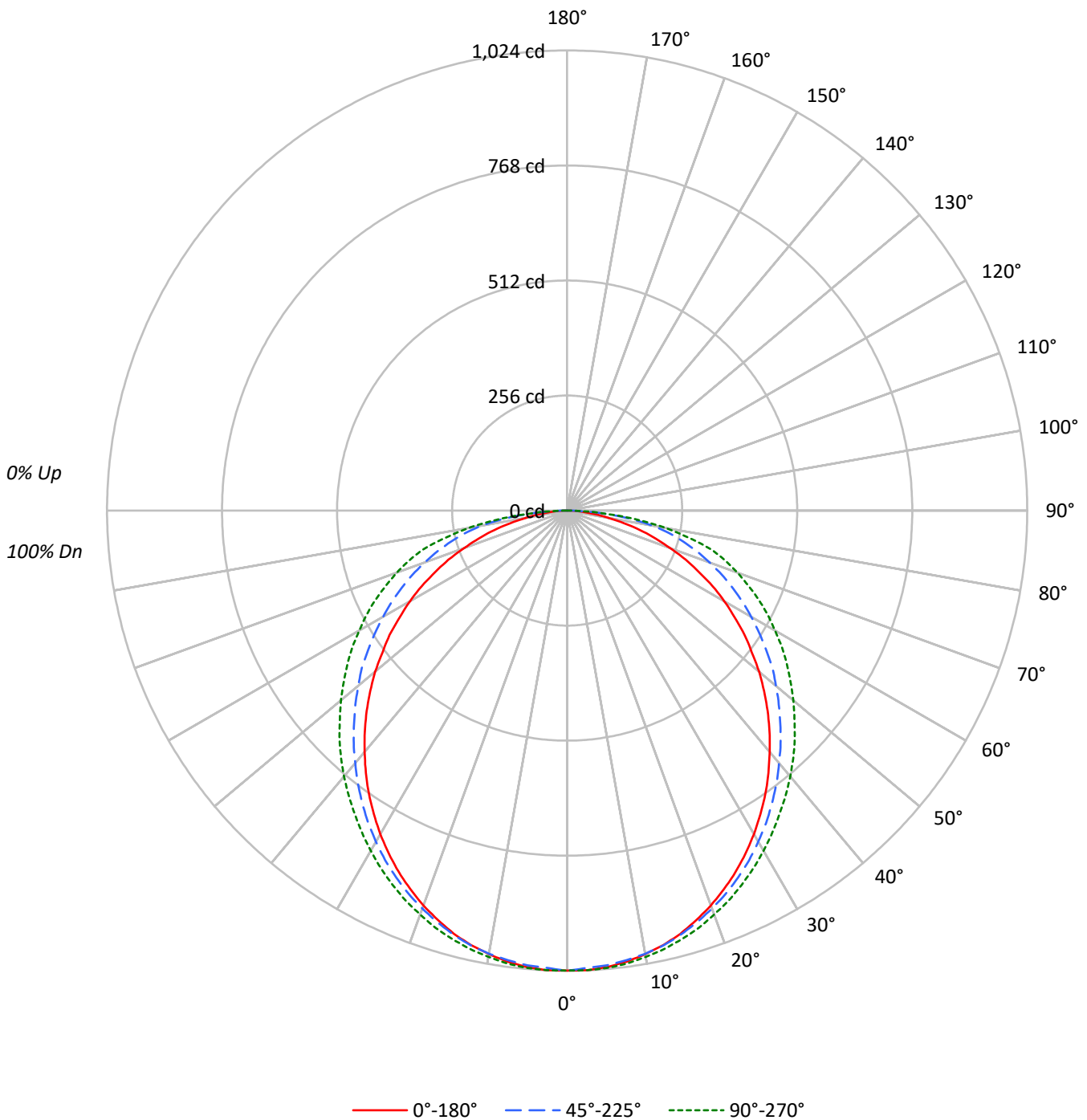
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1377	1377	1377
5°	1377	1372	1380
10°	1369	1368	1378
15°	1358	1361	1375
20°	1339	1349	1370
25°	1317	1337	1364
30°	1292	1322	1358
35°	1264	1305	1354
40°	1231	1289	1356
45°	1200	1276	1363
50°	1167	1270	1376
55°	1131	1267	1401
60°	1087	1273	1438
65°	1030	1293	1500
70°	957	1325	1585
75°	873	1391	1719
80°	717	1498	1719
85°	550	1382	1477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.2
10°-20°	276.4	9.1
20°-30°	415.9	13.6
30°-40°	498.5	16.3
40°-50°	519.5	17.0
50°-60°	483.3	15.9
60°-70°	398.0	13.1
70°-80°	271.1	8.9
80°-90°	89.5	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°	789.2	25.9
0°-40°	1287.6	42.2
0°-60°	2290.4	75.1
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1020	1020	1016	1021	1022	97
15°	975	976	977	986	987	275
25°	887	891	901	916	919	408
35°	769	778	795	816	824	481
45°	631	644	671	704	716	487
55°	482	499	540	583	597	430
65°	324	351	406	454	471	321
75°	168	206	268	316	331	177
85°	36	69	90	96	96	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.7	1023.7	1023.7	1023.7	1023.7
2.5°	1023.7	1023.7	1018.6	1023.7	1023.7
5°	1019.6	1019.6	1015.6	1020.6	1021.7
7.5°	1012.5	1013.5	1009.4	1015.6	1016.6
10°	1002.3	1003.3	1001.3	1007.4	1008.4
12.5°	990.1	991.1	991.1	998.3	999.3
15°	974.8	975.9	976.9	986.0	987.1
17.5°	955.5	958.6	960.6	971.8	973.8
20°	935.2	938.2	942.3	954.5	956.5
22.5°	911.8	915.8	923.0	936.2	939.2
25°	887.3	891.4	900.6	915.8	918.9
27.5°	859.9	866.0	877.2	893.4	897.5
30°	831.4	837.5	850.7	868.0	874.1
32.5°	800.8	809.0	824.2	843.6	849.7
35°	769.3	778.5	794.7	816.1	824.2
37.5°	735.7	745.9	765.2	788.6	798.8
40°	701.1	713.3	733.7	761.2	772.3
42.5°	666.5	677.7	703.2	732.7	744.9
45°	630.9	644.1	670.6	704.2	716.4
47.5°	594.3	607.5	639.0	674.7	685.9
50°	557.6	570.9	606.5	644.1	657.4
52.5°	518.0	535.3	576.0	613.6	626.8
55°	482.3	498.6	540.3	583.1	597.3
57.5°	441.6	461.0	506.8	551.5	566.8
60°	404.0	424.3	473.2	519.0	534.2
62.5°	365.3	387.7	439.6	486.4	503.7
65°	323.6	351.1	406.0	453.8	471.1
67.5°	285.9	314.4	372.4	421.3	436.5
70°	243.2	277.8	336.8	385.7	403.0
72.5°	206.6	241.2	303.2	351.1	368.4
75°	167.9	205.6	267.6	315.5	330.7
77.5°	129.2	171.0	233.0	269.7	274.7
80°	92.6	136.4	193.3	214.7	221.8
82.5°	65.1	104.8	142.5	156.7	160.8
85°	35.6	69.2	89.5	95.7	95.7
87.5°	15.3	29.5	35.6	36.6	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)