

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: P276466

Luminaire Tested: **24CZ2-30HE-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.3 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

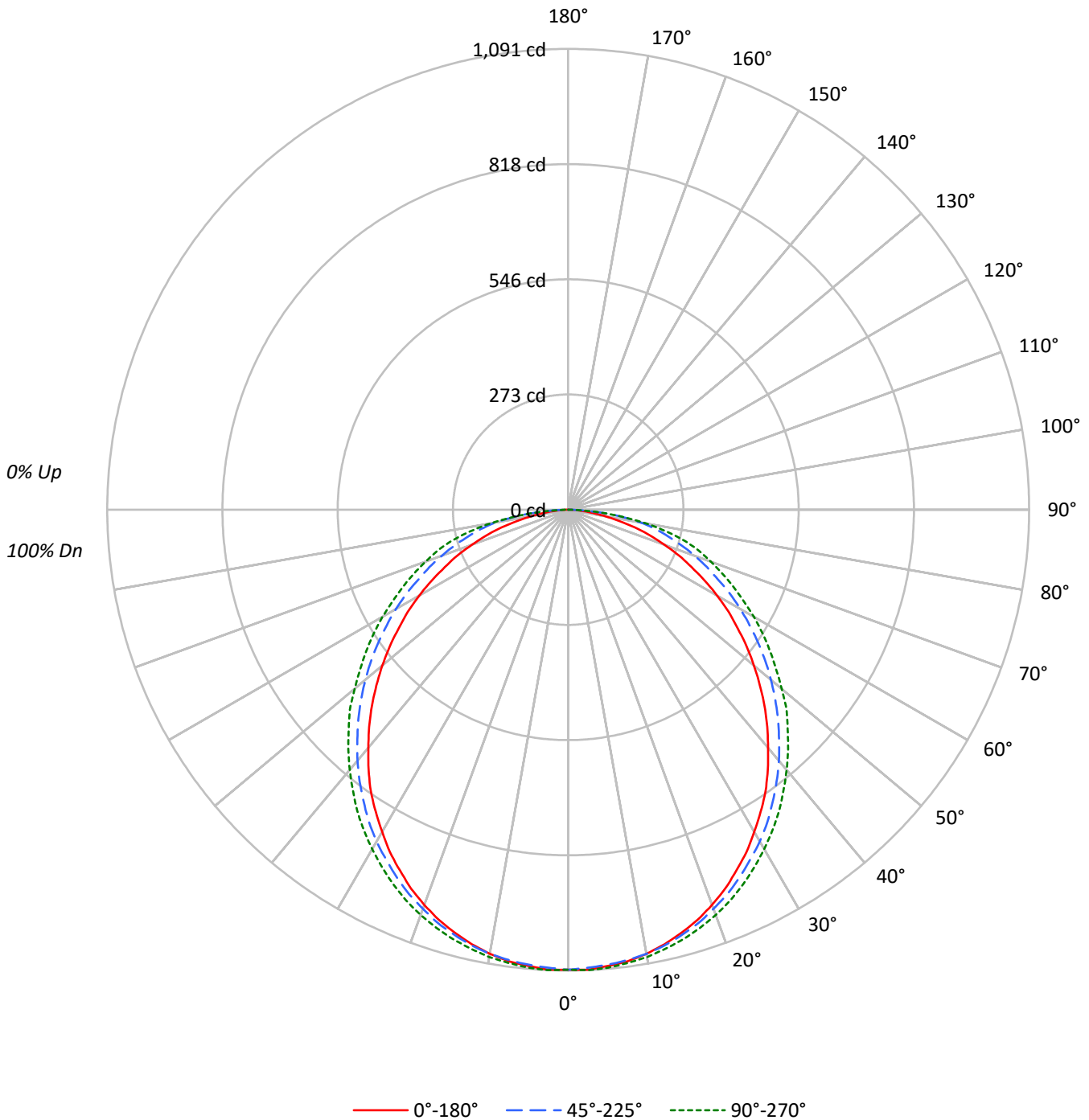
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1465	1465	1465
5°	1464	1460	1470
10°	1458	1458	1469
15°	1444	1451	1466
20°	1426	1440	1462
25°	1399	1425	1453
30°	1368	1409	1441
35°	1338	1386	1430
40°	1292	1363	1413
45°	1250	1336	1398
50°	1202	1311	1381
55°	1148	1287	1368
60°	1094	1267	1365
65°	1025	1245	1373
70°	949	1251	1410
75°	850	1275	1490
80°	687	1351	1457
85°	517	1186	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.3
10°-20°	294.6	9.5
20°-30°	442.9	14.3
30°-40°	527.5	17.0
40°-50°	539.9	17.4
50°-60°	486.1	15.7
60°-70°	381.7	12.3
70°-80°	247.8	8.0
80°-90°	76.6	2.5
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°	840.6	27.1
0°-40°	1368.2	44.1
0°-60°	2394.2	77.2
0°-90°	3100.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1084	1086	1081	1087	1088	103
15°	1037	1040	1042	1051	1053	292
25°	942	950	960	976	979	434
35°	814	824	844	865	870	508
45°	657	673	702	729	735	506
55°	489	511	548	577	583	439
65°	322	347	391	423	431	321
75°	164	195	245	279	287	173
85°	34	62	77	75	75	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.1	1089.1	1089.1	1089.1	1089.1
2.5°	1090.1	1090.1	1085.2	1090.1	1091.1
5°	1084.2	1086.2	1081.3	1087.2	1088.2
7.5°	1078.3	1078.3	1075.4	1081.3	1082.3
10°	1067.5	1068.5	1067.5	1074.4	1075.4
12.5°	1053.7	1055.7	1056.6	1063.5	1064.5
15°	1037.0	1039.9	1041.9	1050.7	1052.7
17.5°	1018.2	1021.2	1026.1	1036.0	1037.9
20°	995.6	999.5	1005.4	1018.2	1021.2
22.5°	971.0	974.9	984.8	996.6	1001.5
25°	942.4	950.3	960.1	975.9	978.9
27.5°	913.9	920.8	933.6	950.3	954.2
30°	880.4	891.2	907.0	923.7	927.6
32.5°	847.9	858.7	877.4	895.1	900.1
35°	814.4	824.2	843.9	864.6	870.5
37.5°	776.0	788.8	810.5	831.1	837.0
40°	735.6	751.4	776.0	797.7	804.5
42.5°	697.2	714.0	738.6	762.2	770.1
45°	656.8	672.6	702.1	728.7	734.6
47.5°	615.5	633.2	664.7	691.3	701.1
50°	574.1	592.8	626.3	653.9	659.8
52.5°	532.8	552.5	587.9	617.4	620.4
55°	489.4	511.1	548.5	577.1	583.0
57.5°	450.0	468.7	509.1	538.7	545.6
60°	406.7	427.4	470.7	498.3	507.2
62.5°	365.3	387.0	432.3	459.9	467.8
65°	322.0	346.6	390.9	423.4	431.3
67.5°	284.6	308.2	355.5	387.0	394.9
70°	241.3	267.9	318.1	350.6	358.5
72.5°	203.8	231.4	281.6	313.2	325.0
75°	163.5	195.0	245.2	278.7	286.6
77.5°	124.1	160.5	211.7	237.3	237.3
80°	88.6	127.0	174.3	186.1	188.1
82.5°	58.1	95.5	129.0	128.0	128.0
85°	33.5	62.0	76.8	74.8	74.8
87.5°	12.8	25.6	27.6	27.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)