

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: P275893

Luminaire Tested: **24CZ2-30HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275893
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2904.0 lumens
Efficiency: N/A
Efficacy: 148.0 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

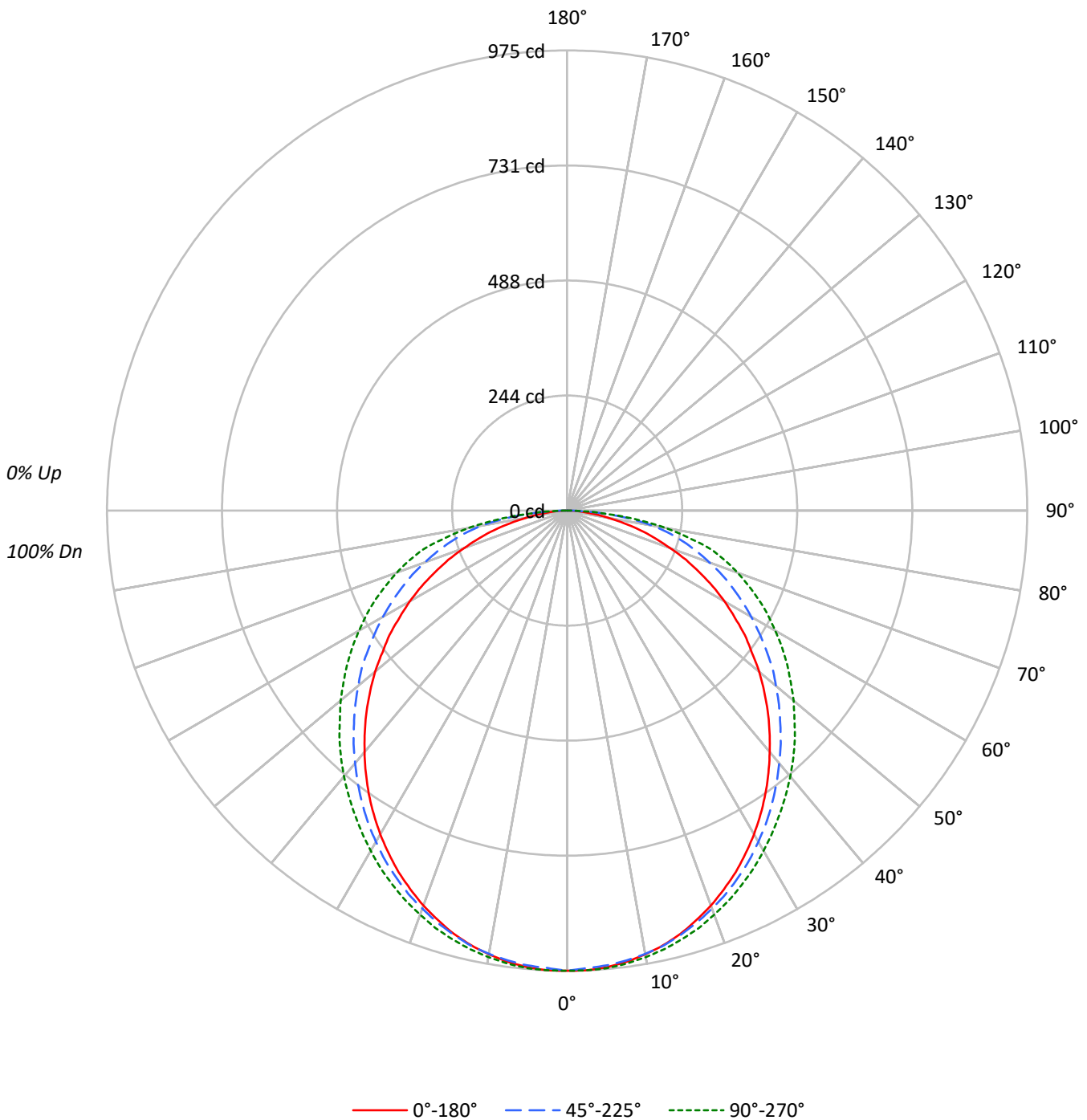
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1312	1312	1312
5°	1312	1306	1314
10°	1304	1303	1312
15°	1293	1296	1310
20°	1275	1285	1304
25°	1255	1273	1299
30°	1230	1259	1293
35°	1203	1243	1289
40°	1173	1227	1292
45°	1143	1215	1298
50°	1112	1209	1311
55°	1078	1207	1335
60°	1035	1213	1369
65°	981	1231	1429
70°	911	1262	1510
75°	831	1325	1638
80°	683	1426	1637
85°	523	1317	1406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.2
10°-20°	263.3	9.1
20°-30°	396.2	13.6
30°-40°	474.7	16.3
40°-50°	494.7	17.0
50°-60°	460.3	15.9
60°-70°	379.1	13.1
70°-80°	258.2	8.9
80°-90°	85.2	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°	751.6	25.9
0°-40°	1226.4	42.2
0°-60°	2181.4	75.1
0°-90°	2904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	971	971	967	972	973	92
15°	928	930	930	939	940	262
25°	845	849	858	872	875	389
35°	733	741	757	777	785	458
45°	601	614	639	671	682	463
55°	459	475	515	555	569	409
65°	308	334	387	432	449	306
75°	160	196	255	300	315	169
85°	34	66	85	91	91	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.0	975.0	975.0	975.0	975.0
2.5°	975.0	975.0	970.2	975.0	975.0
5°	971.1	971.1	967.3	972.1	973.1
7.5°	964.3	965.3	961.4	967.3	968.2
10°	954.7	955.6	953.7	959.5	960.5
12.5°	943.0	944.0	944.0	950.8	951.7
15°	928.5	929.5	930.4	939.1	940.1
17.5°	910.1	913.0	914.9	925.6	927.5
20°	890.7	893.6	897.5	909.1	911.0
22.5°	868.4	872.3	879.1	891.7	894.6
25°	845.1	849.0	857.7	872.3	875.2
27.5°	819.0	824.8	835.4	851.0	854.8
30°	791.8	797.6	810.2	826.7	832.5
32.5°	762.8	770.5	785.0	803.5	809.3
35°	732.7	741.4	756.9	777.3	785.0
37.5°	700.7	710.4	728.8	751.1	760.8
40°	667.8	679.4	698.8	725.0	735.6
42.5°	634.8	645.5	669.7	697.8	709.4
45°	600.9	613.5	638.7	670.7	682.3
47.5°	566.0	578.6	608.7	642.6	653.2
50°	531.1	543.7	577.6	613.5	626.1
52.5°	493.3	509.8	548.6	584.4	597.0
55°	459.4	474.9	514.6	555.3	568.9
57.5°	420.6	439.0	482.7	525.3	539.8
60°	384.8	404.2	450.7	494.3	508.8
62.5°	347.9	369.3	418.7	463.3	479.8
65°	308.2	334.4	386.7	432.3	448.7
67.5°	272.3	299.5	354.7	401.2	415.8
70°	231.6	264.6	320.8	367.3	383.8
72.5°	196.7	229.7	288.8	334.4	350.8
75°	159.9	195.8	254.9	300.4	315.0
77.5°	123.1	162.8	221.9	256.8	261.7
80°	88.2	129.9	184.1	204.5	211.3
82.5°	62.0	99.8	135.7	149.3	153.1
85°	33.9	65.9	85.3	91.1	91.1
87.5°	14.5	28.1	33.9	34.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)