

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: P276185

Luminaire Tested: **24CZ2-30HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276185
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-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2756.7 lumens
Efficiency: N/A
Efficacy: 134.1 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

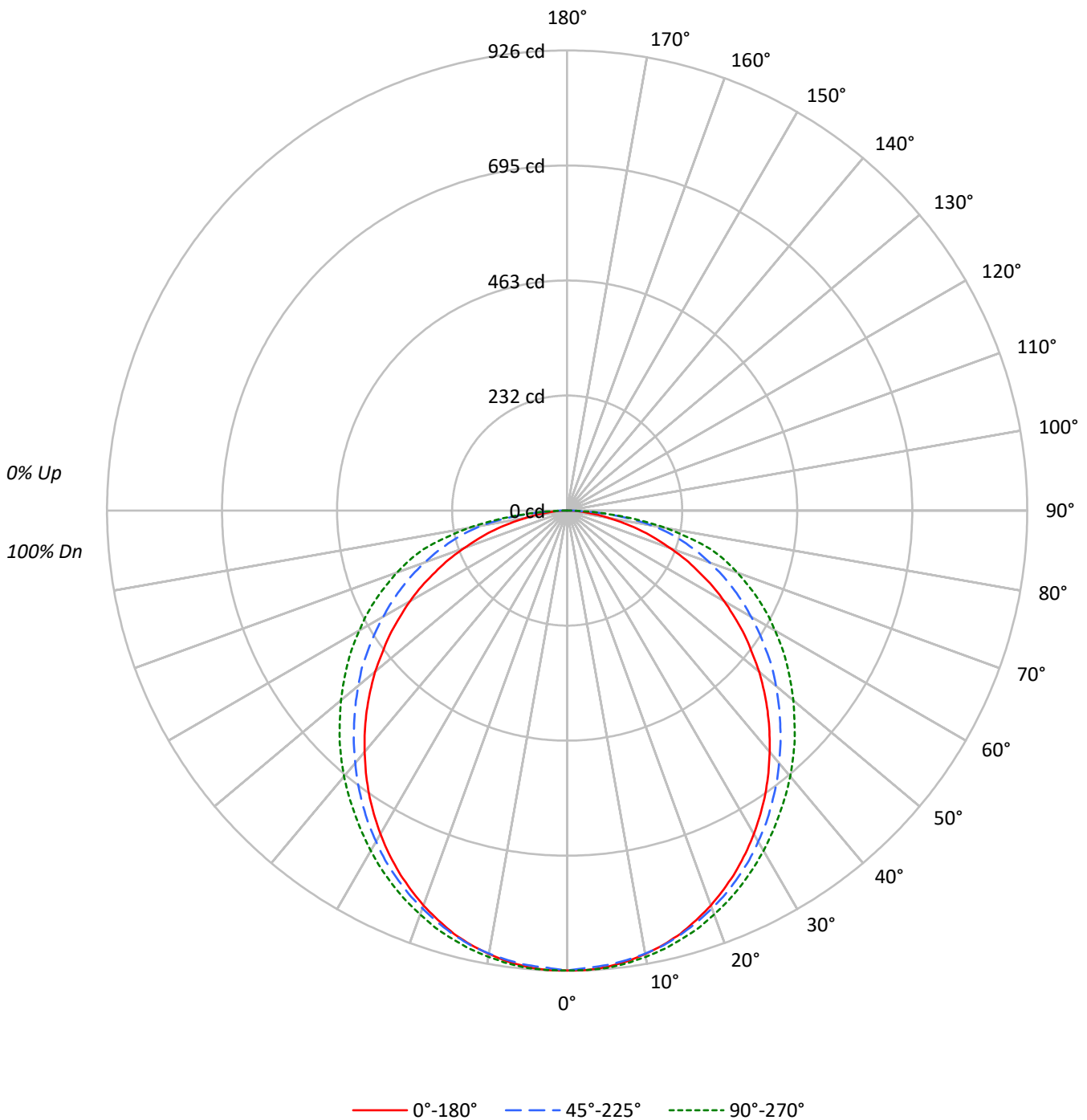
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1245	1245	1245
5°	1245	1240	1248
10°	1238	1237	1246
15°	1228	1230	1243
20°	1211	1220	1238
25°	1191	1209	1233
30°	1168	1195	1228
35°	1142	1180	1224
40°	1113	1165	1227
45°	1085	1154	1232
50°	1055	1148	1244
55°	1023	1146	1267
60°	983	1151	1300
65°	932	1169	1356
70°	865	1198	1433
75°	789	1258	1554
80°	649	1354	1554
85°	497	1250	1335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.2
10°-20°	249.9	9.1
20°-30°	376.1	13.6
30°-40°	450.7	16.3
40°-50°	469.6	17.0
50°-60°	436.9	15.9
60°-70°	359.9	13.1
70°-80°	245.1	8.9
80°-90°	80.9	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°	713.5	25.9
0°-40°	1164.2	42.2
0°-60°	2070.8	75.1
0°-90°	2756.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2756.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	922	922	918	923	924	87
15°	881	882	883	892	892	248
25°	802	806	814	828	831	369
35°	696	704	718	738	745	435
45°	570	582	606	637	648	440
55°	436	451	488	527	540	389
65°	293	317	367	410	426	290
75°	152	186	242	285	299	160
85°	32	63	81	86	86	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.5	925.5	925.5	925.5	925.5
2.5°	925.5	925.5	920.9	925.5	925.5
5°	921.9	921.9	918.2	922.8	923.7
7.5°	915.4	916.3	912.7	918.2	919.1
10°	906.2	907.1	905.3	910.8	911.7
12.5°	895.2	896.1	896.1	902.5	903.5
15°	881.4	882.3	883.2	891.5	892.4
17.5°	863.9	866.7	868.5	878.6	880.5
20°	845.5	848.3	851.9	863.0	864.8
22.5°	824.3	828.0	834.5	846.4	849.2
25°	802.3	805.9	814.2	828.0	830.8
27.5°	777.4	782.9	793.1	807.8	811.5
30°	751.7	757.2	769.1	784.8	790.3
32.5°	724.1	731.4	745.2	762.7	768.2
35°	695.5	703.8	718.5	737.9	745.2
37.5°	665.2	674.4	691.9	713.0	722.2
40°	633.9	644.9	663.3	688.2	698.3
42.5°	602.6	612.7	635.7	662.4	673.4
45°	570.4	582.4	606.3	636.6	647.7
47.5°	537.3	549.2	577.8	610.0	620.1
50°	504.2	516.1	548.3	582.4	594.3
52.5°	468.3	483.9	520.7	554.8	566.7
55°	436.1	450.8	488.5	527.2	540.0
57.5°	399.3	416.8	458.2	498.6	512.4
60°	365.2	383.6	427.8	469.2	483.0
62.5°	330.3	350.5	397.4	439.8	455.4
65°	292.6	317.4	367.1	410.3	426.0
67.5°	258.5	284.3	336.7	380.9	394.7
70°	219.9	251.2	304.5	348.7	364.3
72.5°	186.8	218.0	274.2	317.4	333.0
75°	151.8	185.8	242.0	285.2	299.0
77.5°	116.8	154.6	210.7	243.8	248.4
80°	83.7	123.3	174.8	194.1	200.6
82.5°	58.9	94.8	128.8	141.7	145.4
85°	32.2	62.6	81.0	86.5	86.5
87.5°	13.8	26.7	32.2	33.1	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)