

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: P276183

Luminaire Tested: **24CZ2-30HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276183
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2726.4 lumens
Efficiency: N/A
Efficacy: 135.1 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

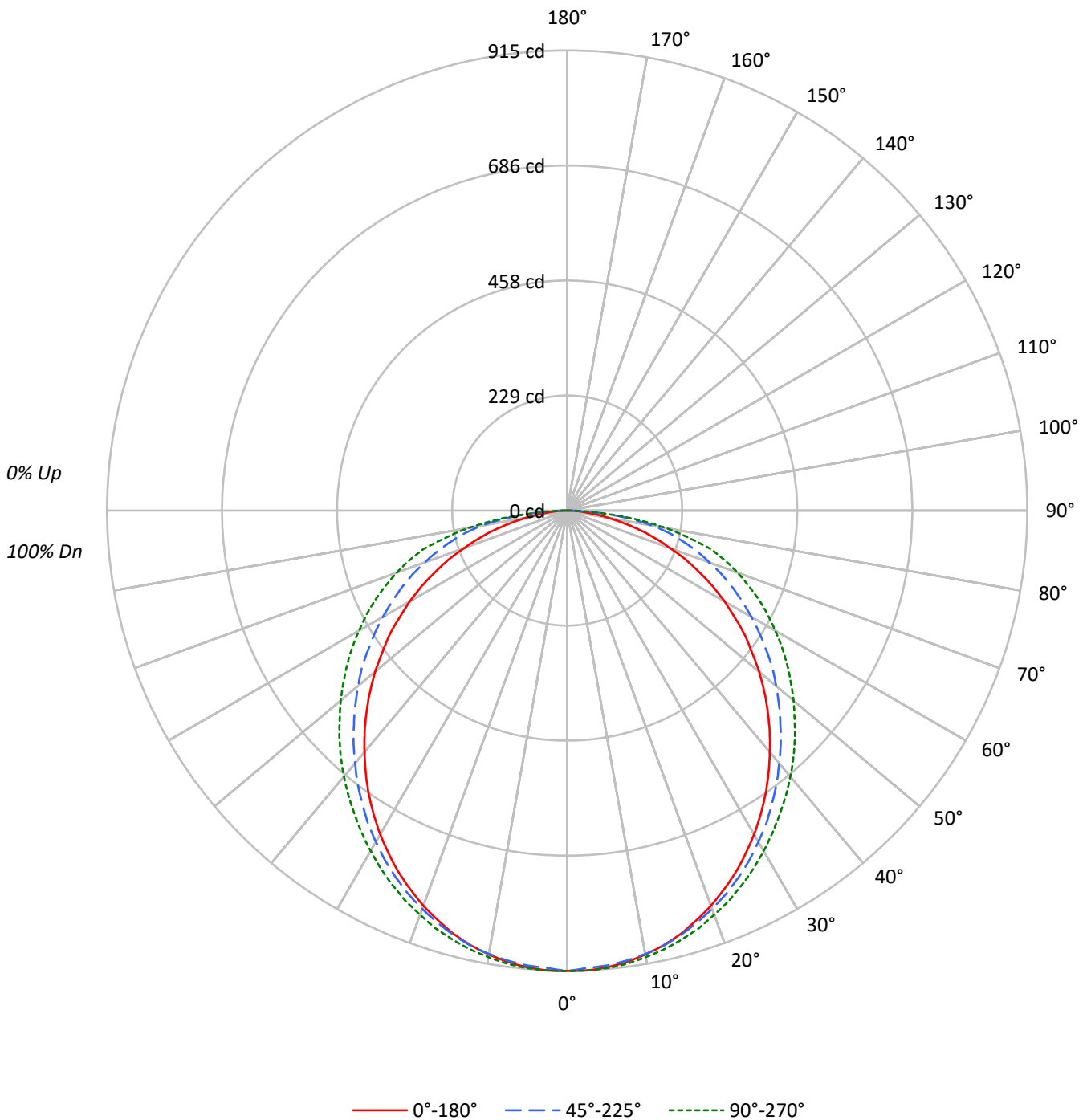
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1232	1232	1232
5°	1231	1227	1234
10°	1225	1223	1232
15°	1214	1217	1229
20°	1197	1206	1225
25°	1178	1196	1220
30°	1155	1182	1214
35°	1130	1167	1211
40°	1101	1152	1213
45°	1073	1141	1219
50°	1044	1135	1230
55°	1012	1133	1253
60°	972	1139	1285
65°	921	1156	1341
70°	856	1185	1417
75°	780	1244	1537
80°	642	1340	1537
85°	491	1237	1320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.2
10°-20°	247.2	9.1
20°-30°	371.9	13.6
30°-40°	445.7	16.3
40°-50°	464.5	17.0
50°-60°	432.2	15.9
60°-70°	355.9	13.1
70°-80°	242.4	8.9
80°-90°	80.0	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°	705.7	25.9
0°-40°	1151.4	42.2
0°-60°	2048.0	75.1
0°-90°	2726.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2726.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	912	912	908	913	914	87
15°	872	873	874	882	883	246
25°	793	797	805	819	822	365
35°	688	696	711	730	737	430
45°	564	576	600	630	641	435
55°	431	446	483	521	534	384
65°	289	314	363	406	421	287
75°	150	184	239	282	296	158
85°	32	62	80	86	86	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.4	915.4	915.4	915.4	915.4
2.5°	915.4	915.4	910.8	915.4	915.4
5°	911.7	911.7	908.1	912.6	913.6
7.5°	905.4	906.3	902.6	908.1	909.0
10°	896.3	897.2	895.4	900.8	901.7
12.5°	885.3	886.3	886.3	892.6	893.5
15°	871.7	872.6	873.5	881.7	882.6
17.5°	854.4	857.1	859.0	869.0	870.8
20°	836.2	838.9	842.6	853.5	855.3
22.5°	815.3	818.9	825.3	837.1	839.8
25°	793.4	797.1	805.3	818.9	821.6
27.5°	768.9	774.3	784.3	798.9	802.5
30°	743.4	748.9	760.7	776.2	781.6
32.5°	716.1	723.4	737.0	754.3	759.8
35°	687.9	696.1	710.6	729.7	737.0
37.5°	657.9	667.0	684.3	705.2	714.3
40°	626.9	637.8	656.0	680.6	690.6
42.5°	596.0	606.0	628.7	655.1	666.1
45°	564.1	576.0	599.6	629.7	640.6
47.5°	531.4	543.2	571.4	603.3	613.3
50°	498.6	510.5	542.3	576.0	587.8
52.5°	463.1	478.6	515.0	548.7	560.5
55°	431.3	445.9	483.2	521.4	534.1
57.5°	394.9	412.2	453.1	493.2	506.8
60°	361.2	379.4	423.1	464.1	477.7
62.5°	326.7	346.7	393.1	434.9	450.4
65°	289.4	313.9	363.1	405.8	421.3
67.5°	255.7	281.2	333.0	376.7	390.4
70°	217.5	248.4	301.2	344.9	360.3
72.5°	184.7	215.6	271.2	313.9	329.4
75°	150.1	183.8	239.3	282.1	295.7
77.5°	115.6	152.9	208.4	241.1	245.7
80°	82.8	121.9	172.9	192.0	198.4
82.5°	58.2	93.7	127.4	140.1	143.8
85°	31.8	61.9	80.1	85.5	85.5
87.5°	13.6	26.4	31.8	32.8	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)