

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: P275948

Luminaire Tested: **24CZ2-35-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275948
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: 24CZ2-35-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3365.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

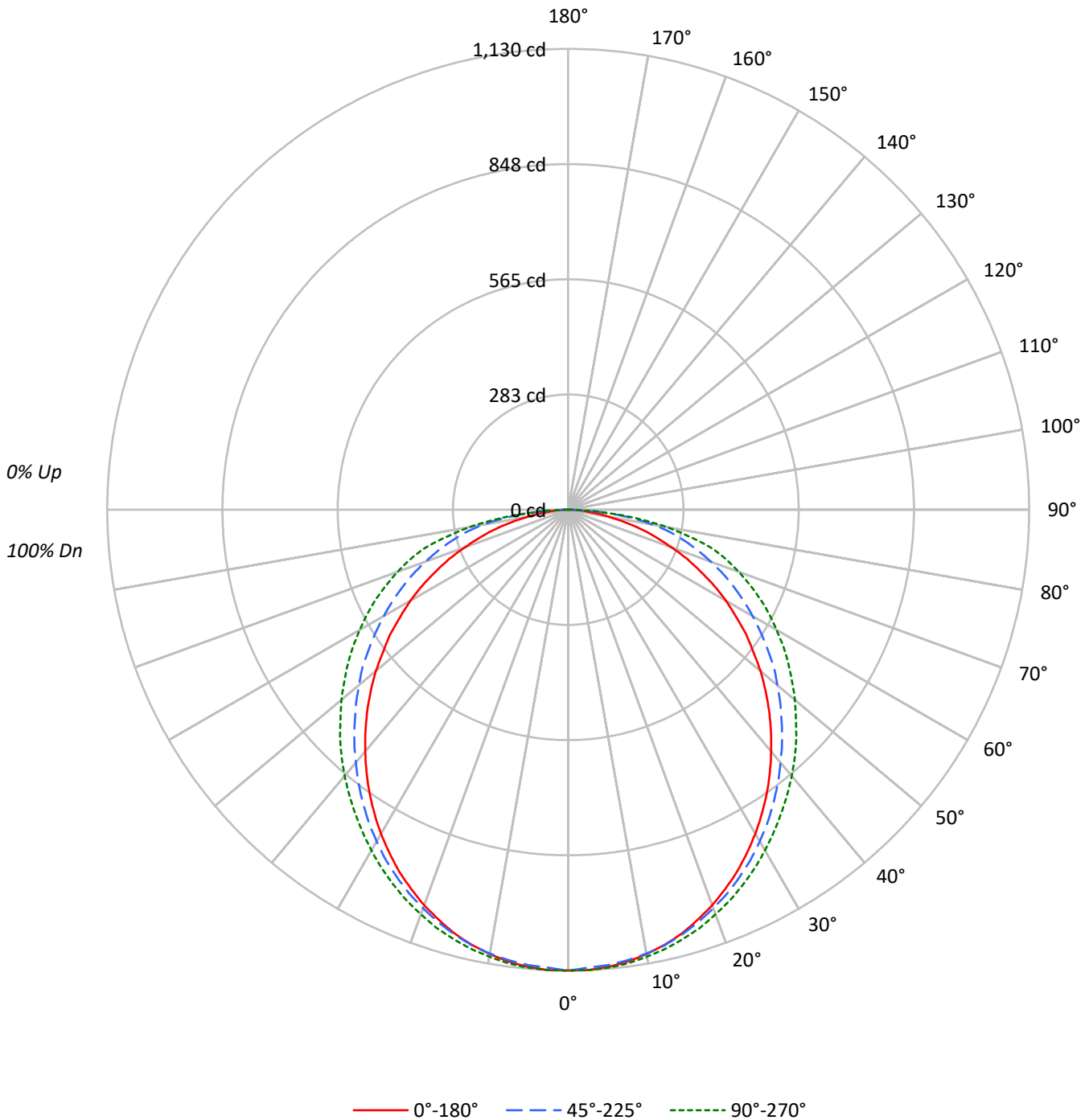
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1520	1520	1520
5°	1520	1514	1523
10°	1511	1510	1520
15°	1499	1502	1517
20°	1478	1489	1512
25°	1454	1476	1506
30°	1425	1459	1499
35°	1395	1441	1494
40°	1359	1422	1497
45°	1325	1408	1504
50°	1288	1401	1519
55°	1249	1399	1546
60°	1200	1405	1587
65°	1137	1427	1656
70°	1056	1462	1749
75°	963	1536	1897
80°	792	1654	1897
85°	607	1525	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.2
10°-20°	305.0	9.1
20°-30°	459.1	13.6
30°-40°	550.1	16.3
40°-50°	573.3	17.0
50°-60°	533.4	15.9
60°-70°	439.3	13.1
70°-80°	299.2	8.9
80°-90°	98.8	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°	870.9	25.9
0°-40°	1421.1	42.2
0°-60°	2527.7	75.1
0°-90°	3365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1125	1125	1121	1126	1128	107
15°	1076	1077	1078	1088	1089	303
25°	979	984	994	1011	1014	451
35°	849	859	877	901	910	531
45°	696	711	740	777	791	537
55°	532	550	596	644	659	474
65°	357	388	448	501	520	355
75°	185	227	295	348	365	195
85°	39	76	99	106	106	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1129.8	1129.8	1124.2	1129.8	1129.8
5°	1125.3	1125.3	1120.8	1126.4	1127.5
7.5°	1117.4	1118.6	1114.1	1120.8	1121.9
10°	1106.2	1107.3	1105.1	1111.8	1112.9
12.5°	1092.7	1093.8	1093.8	1101.7	1102.8
15°	1075.9	1077.0	1078.1	1088.2	1089.4
17.5°	1054.5	1057.9	1060.2	1072.5	1074.8
20°	1032.1	1035.5	1039.9	1053.4	1055.7
22.5°	1006.3	1010.7	1018.6	1033.2	1036.6
25°	979.3	983.8	993.9	1010.7	1014.1
27.5°	949.0	955.7	968.1	986.0	990.5
30°	917.5	924.3	938.9	958.0	964.7
32.5°	883.8	892.8	909.7	931.0	937.7
35°	849.0	859.1	877.1	900.7	909.7
37.5°	812.0	823.2	844.5	870.4	881.6
40°	773.8	787.3	809.7	840.0	852.4
42.5°	735.6	748.0	776.0	808.6	822.1
45°	696.3	710.9	740.1	777.1	790.6
47.5°	655.9	670.5	705.3	744.6	756.9
50°	615.4	630.0	669.3	710.9	725.5
52.5°	571.6	590.7	635.6	677.2	691.8
55°	532.3	550.3	596.3	643.5	659.2
57.5°	487.4	508.7	559.3	608.7	625.5
60°	445.9	468.3	522.2	572.8	589.6
62.5°	403.2	427.9	485.2	536.8	555.9
65°	357.1	387.5	448.1	500.9	520.0
67.5°	315.6	347.0	411.0	464.9	481.8
70°	268.4	306.6	371.7	425.6	444.7
72.5°	228.0	266.2	334.7	387.5	406.5
75°	185.3	226.9	295.4	348.1	365.0
77.5°	142.6	188.7	257.2	297.6	303.2
80°	102.2	150.5	213.4	237.0	244.8
82.5°	71.9	115.7	157.2	172.9	177.4
85°	39.3	76.4	98.8	105.6	105.6
87.5°	16.8	32.6	39.3	40.4	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)