

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: P275897

Luminaire Tested: **24CZ2-35HE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275897
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: 24CZ2-35HE-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3146.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

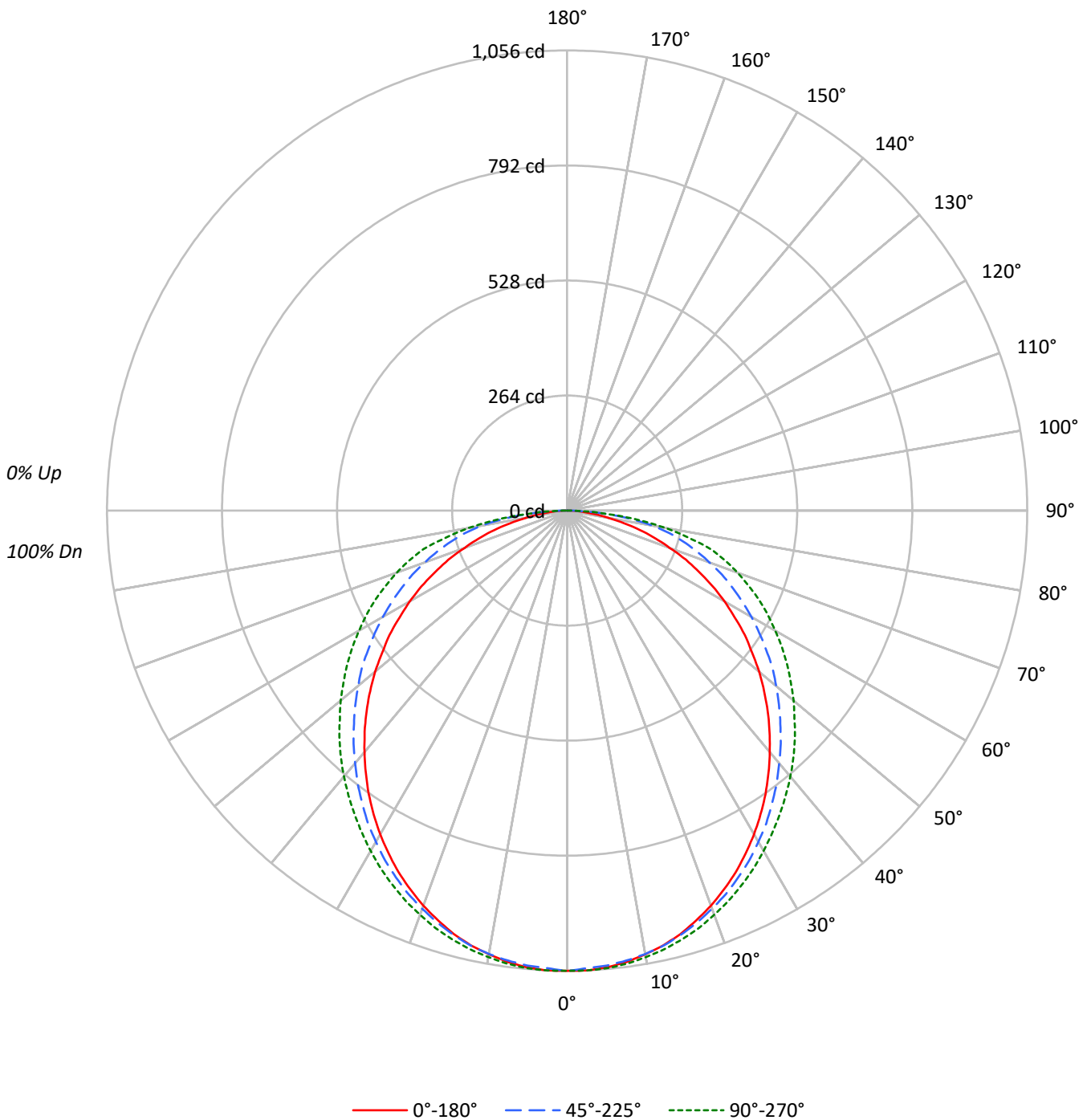
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1421	1421	1421
5°	1421	1415	1424
10°	1413	1412	1422
15°	1401	1404	1419
20°	1382	1392	1413
25°	1359	1379	1408
30°	1333	1364	1401
35°	1304	1347	1397
40°	1271	1330	1400
45°	1239	1317	1407
50°	1204	1310	1420
55°	1167	1308	1446
60°	1122	1314	1483
65°	1063	1334	1548
70°	987	1367	1636
75°	900	1435	1774
80°	740	1546	1774
85°	567	1426	1524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.2
10°-20°	285.2	9.1
20°-30°	429.2	13.6
30°-40°	514.3	16.3
40°-50°	536.0	17.0
50°-60°	498.7	15.9
60°-70°	410.7	13.1
70°-80°	279.7	8.9
80°-90°	92.3	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°	814.3	25.9
0°-40°	1328.6	42.2
0°-60°	2363.2	75.1
0°-90°	3146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1052	1052	1048	1053	1054	100
15°	1006	1007	1008	1017	1018	283
25°	916	920	929	945	948	421
35°	794	803	820	842	850	496
45°	651	665	692	727	739	502
55°	498	514	558	602	616	444
65°	334	362	419	468	486	331
75°	173	212	276	326	341	183
85°	37	71	92	99	99	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1056.3	1056.3	1051.0	1056.3	1056.3
5°	1052.1	1052.1	1047.9	1053.1	1054.2
7.5°	1044.7	1045.8	1041.6	1047.9	1048.9
10°	1034.2	1035.3	1033.2	1039.5	1040.5
12.5°	1021.6	1022.7	1022.7	1030.0	1031.1
15°	1005.9	1006.9	1008.0	1017.4	1018.5
17.5°	985.9	989.1	991.2	1002.7	1004.8
20°	964.9	968.1	972.3	984.9	987.0
22.5°	940.8	945.0	952.3	966.0	969.1
25°	915.6	919.8	929.2	945.0	948.1
27.5°	887.2	893.5	905.1	921.9	926.1
30°	857.8	864.1	877.8	895.6	901.9
32.5°	826.3	834.7	850.5	870.4	876.7
35°	793.8	803.2	820.0	842.1	850.5
37.5°	759.1	769.6	789.6	813.7	824.2
40°	723.4	736.0	757.0	785.4	796.9
42.5°	687.7	699.3	725.5	756.0	768.6
45°	651.0	664.6	691.9	726.6	739.2
47.5°	613.2	626.8	659.4	696.1	707.7
50°	575.4	589.0	625.8	664.6	678.3
52.5°	534.4	552.3	594.3	633.1	646.8
55°	497.7	514.5	557.5	601.6	616.3
57.5°	455.7	475.6	522.9	569.1	584.8
60°	416.8	437.8	488.2	535.5	551.2
62.5°	376.9	400.0	453.6	501.9	519.7
65°	333.9	362.2	418.9	468.3	486.1
67.5°	295.0	324.4	384.3	434.7	450.4
70°	250.9	286.6	347.5	397.9	415.8
72.5°	213.1	248.8	312.9	362.2	380.1
75°	173.2	212.1	276.1	325.5	341.2
77.5°	133.3	176.4	240.4	278.2	283.5
80°	95.5	140.7	199.5	221.5	228.9
82.5°	67.2	108.1	147.0	161.7	165.9
85°	36.7	71.4	92.4	98.7	98.7
87.5°	15.7	30.4	36.7	37.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)