

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: P276282

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276282
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.7 lumens
Efficiency: N/A
Efficacy: 117.9 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

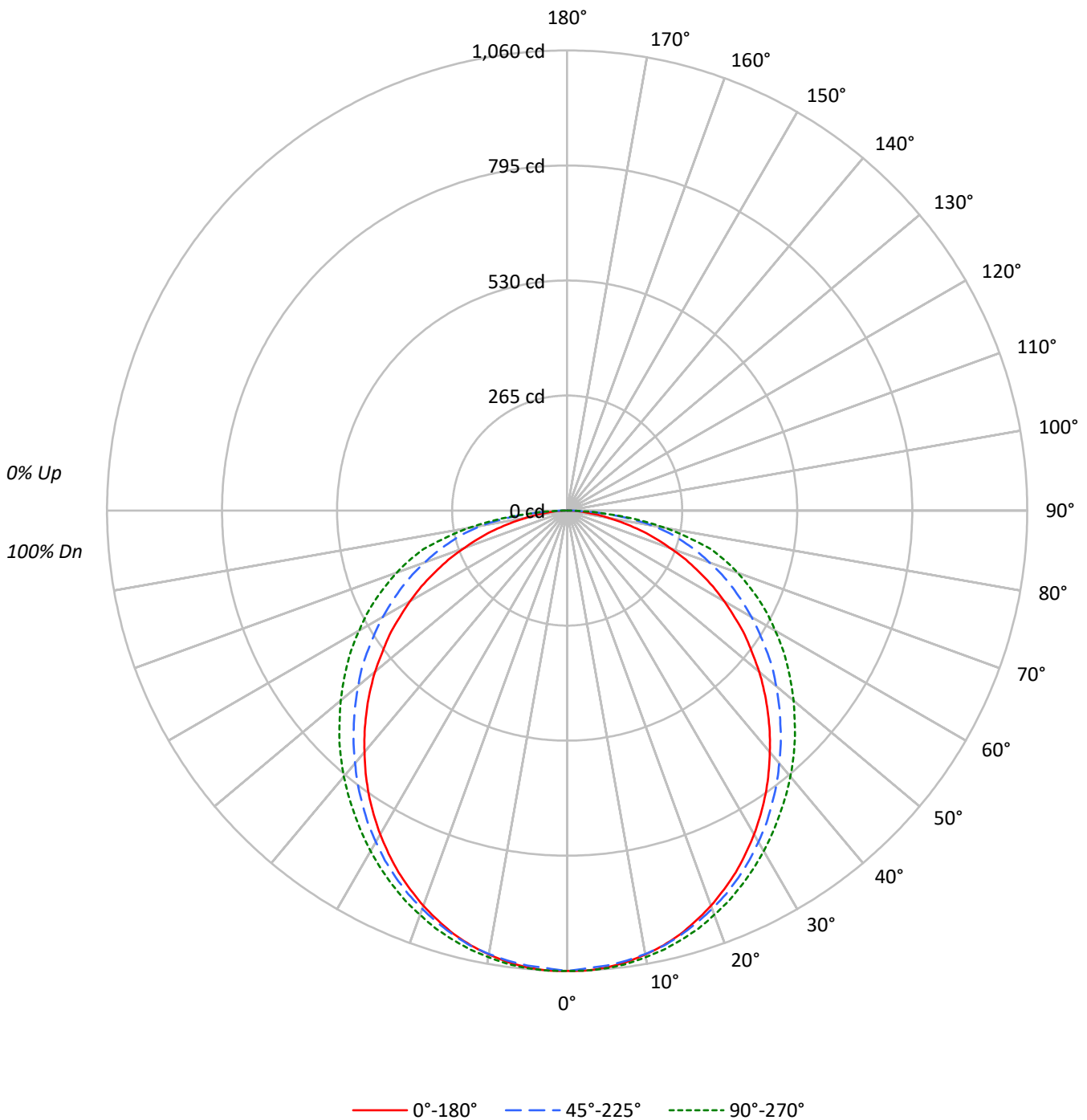
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1427	1427	1427
5°	1427	1421	1430
10°	1419	1417	1427
15°	1407	1410	1424
20°	1387	1398	1419
25°	1365	1385	1413
30°	1338	1369	1407
35°	1309	1352	1403
40°	1276	1335	1405
45°	1244	1322	1412
50°	1209	1315	1425
55°	1172	1313	1452
60°	1126	1319	1489
65°	1067	1339	1554
70°	991	1373	1642
75°	904	1442	1781
80°	743	1552	1781
85°	570	1433	1530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.2
10°-20°	286.4	9.1
20°-30°	430.9	13.6
30°-40°	516.4	16.3
40°-50°	538.1	17.0
50°-60°	500.7	15.9
60°-70°	412.4	13.1
70°-80°	280.8	8.9
80°-90°	92.7	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°	817.6	25.9
0°-40°	1334.0	42.2
0°-60°	2372.8	75.1
0°-90°	3158.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1056	1056	1052	1057	1058	100
15°	1010	1011	1012	1022	1023	285
25°	919	924	933	949	952	423
35°	797	806	823	846	854	498
45°	654	667	695	730	742	504
55°	500	517	560	604	619	445
65°	335	364	421	470	488	333
75°	174	213	277	327	343	183
85°	37	72	93	99	99	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1060.5	1060.5	1055.2	1060.5	1060.5
5°	1056.3	1056.3	1052.1	1057.4	1058.4
7.5°	1048.9	1050.0	1045.8	1052.1	1053.1
10°	1038.4	1039.4	1037.3	1043.7	1044.7
12.5°	1025.7	1026.8	1026.8	1034.2	1035.2
15°	1009.9	1011.0	1012.0	1021.5	1022.6
17.5°	989.9	993.1	995.2	1006.8	1008.9
20°	968.8	972.0	976.2	988.8	990.9
22.5°	944.6	948.8	956.2	969.9	973.0
25°	919.3	923.5	933.0	948.8	951.9
27.5°	890.8	897.1	908.7	925.6	929.8
30°	861.3	867.6	881.3	899.2	905.6
32.5°	829.7	838.1	853.9	873.9	880.3
35°	797.0	806.5	823.3	845.5	853.9
37.5°	762.2	772.7	792.8	817.0	827.5
40°	726.3	739.0	760.1	788.5	800.1
42.5°	690.5	702.1	728.4	759.0	771.7
45°	653.6	667.3	694.7	729.5	742.2
47.5°	615.7	629.4	662.0	698.9	710.5
50°	577.7	591.4	628.3	667.3	681.0
52.5°	536.6	554.5	596.7	635.7	649.4
55°	499.7	516.6	559.8	604.1	618.8
57.5°	457.5	477.6	525.0	571.4	587.2
60°	418.5	439.6	490.2	537.6	553.5
62.5°	378.5	401.6	455.4	503.9	521.8
65°	335.2	363.7	420.6	470.2	488.1
67.5°	296.2	325.7	385.8	436.4	452.2
70°	252.0	287.8	348.9	399.5	417.5
72.5°	214.0	249.8	314.2	363.7	381.6
75°	173.9	212.9	277.3	326.8	342.6
77.5°	133.9	177.1	241.4	279.4	284.6
80°	95.9	141.3	200.3	222.4	229.8
82.5°	67.5	108.6	147.6	162.3	166.6
85°	36.9	71.7	92.8	99.1	99.1
87.5°	15.8	30.6	36.9	38.0	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)