

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: P260851

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3253.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

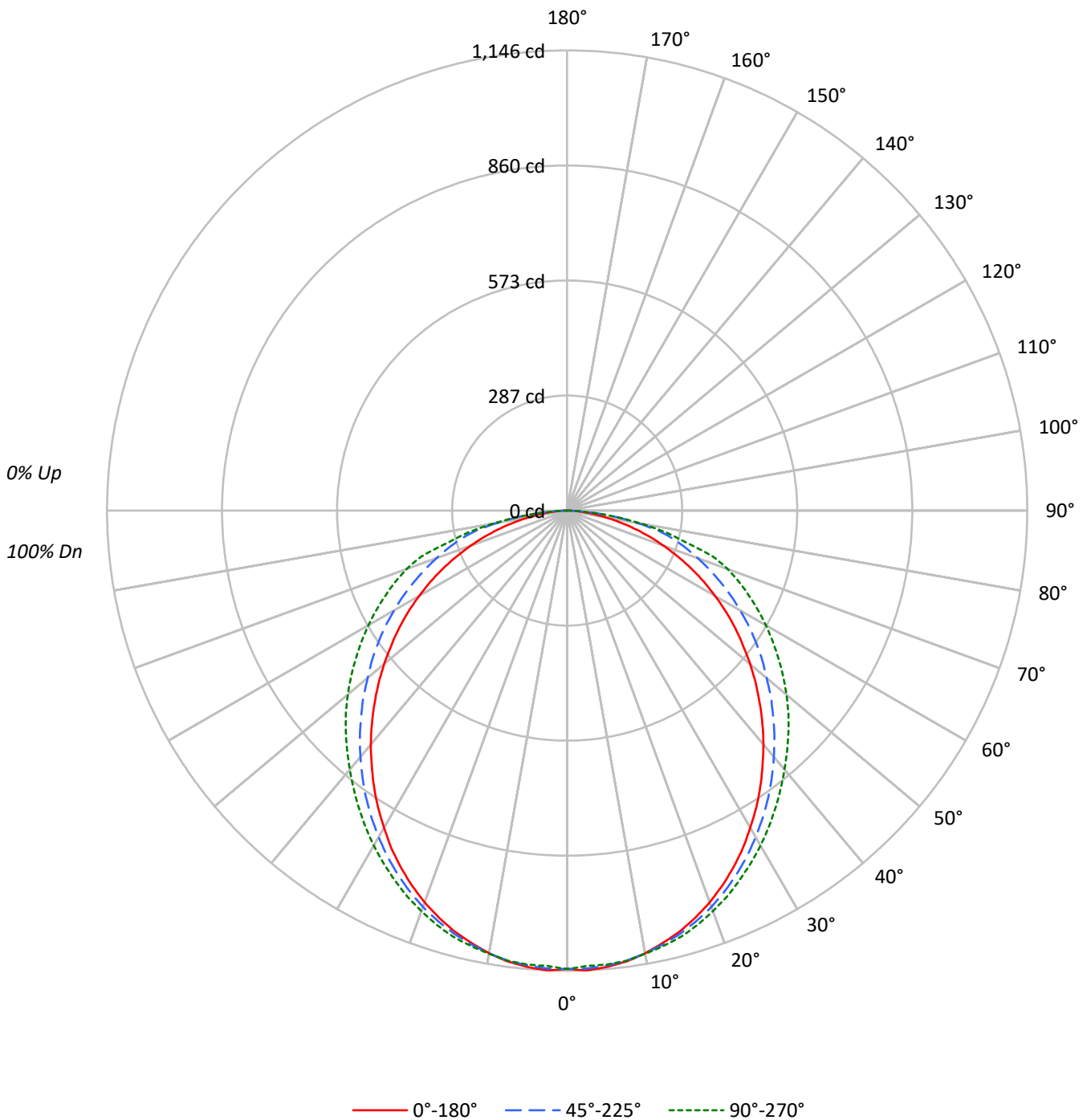
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1536	1536	1536
5°	1540	1536	1533
10°	1529	1529	1531
15°	1511	1519	1530
20°	1486	1504	1520
25°	1455	1483	1508
30°	1417	1459	1497
35°	1378	1434	1486
40°	1336	1407	1479
45°	1291	1380	1484
50°	1245	1357	1492
55°	1199	1348	1508
60°	1145	1340	1538
65°	1085	1340	1589
70°	1004	1363	1674
75°	897	1424	1592
80°	751	1364	1458
85°	568	1048	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.3
10°-20°	307.0	9.4
20°-30°	459.0	14.1
30°-40°	544.5	16.7
40°-50°	560.5	17.2
50°-60°	514.2	15.8
60°-70°	415.7	12.8
70°-80°	269.8	8.3
80°-90°	74.4	2.3
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°	873.9	26.9
0°-40°	1418.5	43.6
0°-60°	2493.1	76.6
0°-90°	3253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1140	1133	1137	1136	1135	108
15°	1085	1080	1090	1095	1098	306
25°	980	981	999	1008	1016	451
35°	839	845	873	892	904	524
45°	678	689	725	760	780	523
55°	511	527	575	622	643	457
65°	341	361	421	477	499	337
75°	173	205	274	306	306	183
85°	37	62	68	66	65	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1146.1	1137.2	1141.6	1140.5	1135.0
5°	1140.5	1132.7	1137.2	1136.1	1135.0
7.5°	1132.7	1124.9	1130.5	1129.4	1130.5
10°	1119.4	1112.7	1119.4	1120.5	1120.5
12.5°	1102.7	1097.1	1106.0	1108.2	1110.4
15°	1084.8	1080.4	1090.4	1094.9	1098.2
17.5°	1062.6	1059.2	1071.5	1077.0	1081.5
20°	1038.1	1036.9	1050.3	1055.9	1061.4
22.5°	1010.2	1010.2	1025.8	1032.5	1040.3
25°	980.1	981.2	999.1	1008.0	1015.8
27.5°	947.8	948.9	970.1	981.2	990.2
30°	912.2	916.6	938.9	953.4	963.4
32.5°	876.6	882.1	906.6	923.3	934.5
35°	838.7	845.4	873.2	892.1	904.4
37.5°	799.7	807.5	837.6	858.7	873.2
40°	760.7	769.6	800.8	825.3	842.0
42.5°	719.5	729.5	764.1	793.0	810.8
45°	678.3	689.4	725.1	759.6	779.7
47.5°	637.1	650.5	688.3	726.2	747.4
50°	594.8	608.1	648.2	691.7	712.8
52.5°	552.4	568.0	612.6	657.1	678.3
55°	511.2	526.8	574.7	621.5	642.7
57.5°	468.9	484.5	536.8	585.9	607.0
60°	425.5	443.3	497.9	548.0	571.4
62.5°	383.1	402.1	460.0	513.5	535.7
65°	340.8	360.9	421.0	476.7	499.0
67.5°	297.4	320.8	383.1	439.9	463.3
70°	255.1	280.7	346.4	403.2	425.5
72.5°	213.8	241.7	309.6	367.6	380.9
75°	172.6	204.9	274.0	306.3	306.3
77.5°	133.7	169.3	233.9	246.1	252.8
80°	96.9	135.9	176.0	190.5	188.2
82.5°	64.6	103.6	125.9	125.9	122.5
85°	36.8	62.4	67.9	65.7	64.6
87.5°	15.6	23.4	21.2	16.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)