

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: P260555

Luminaire Tested: **24CZ-LD5-30-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260555
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-LD5-30-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3254.0 lumens
Efficiency: N/A
Efficacy: 158.1 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

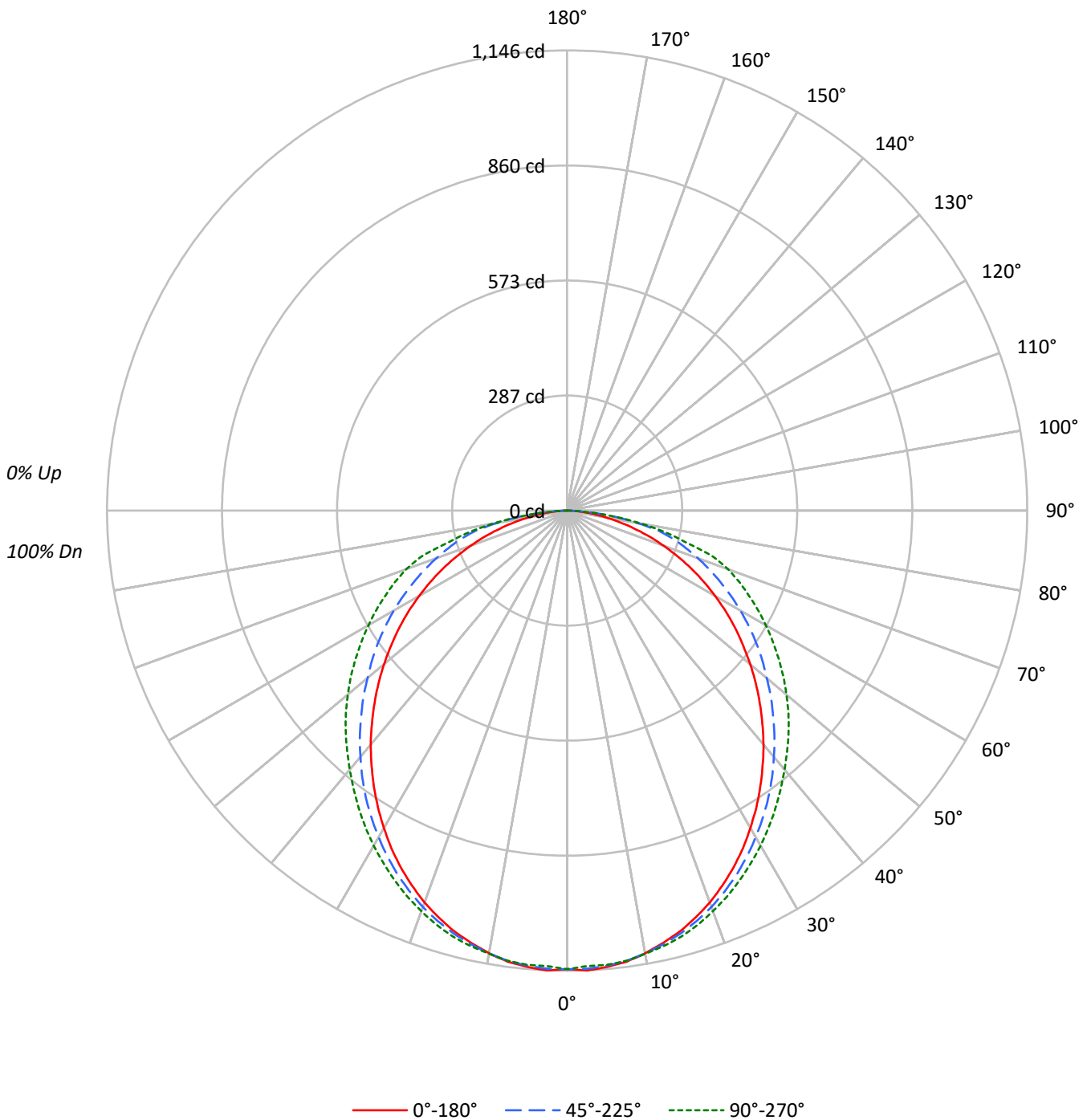
Input Watts (W): 20.584527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1537	1537	1537
5°	1541	1536	1533
10°	1530	1530	1531
15°	1512	1519	1530
20°	1487	1504	1520
25°	1455	1484	1508
30°	1418	1459	1497
35°	1378	1435	1486
40°	1337	1407	1479
45°	1291	1380	1484
50°	1245	1357	1492
55°	1200	1349	1508
60°	1145	1340	1538
65°	1085	1341	1589
70°	1004	1363	1674
75°	898	1425	1593
80°	751	1364	1459
85°	568	1050	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.3
10°-20°	307.1	9.4
20°-30°	459.1	14.1
30°-40°	544.7	16.7
40°-50°	560.6	17.2
50°-60°	514.3	15.8
60°-70°	415.8	12.8
70°-80°	269.9	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°	874.2	26.9
0°-40°	1418.9	43.6
0°-60°	2493.8	76.6
0°-90°	3254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1141	1133	1138	1136	1135	108
15°	1085	1081	1091	1095	1098	306
25°	980	982	999	1008	1016	451
35°	839	846	874	892	905	525
45°	678	690	725	760	780	524
55°	511	527	575	622	643	457
65°	341	361	421	477	499	337
75°	173	205	274	306	306	184
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°	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1146.4	1137.5	1142.0	1140.9	1135.3
5°	1140.9	1133.1	1137.5	1136.4	1135.3
7.5°	1133.1	1125.3	1130.8	1129.7	1130.8
10°	1119.7	1113.0	1119.7	1120.8	1120.8
12.5°	1103.0	1097.4	1106.3	1108.6	1110.8
15°	1085.2	1080.7	1090.7	1095.2	1098.5
17.5°	1062.9	1059.5	1071.8	1077.4	1081.8
20°	1038.4	1037.3	1050.6	1056.2	1061.8
22.5°	1010.5	1010.5	1026.1	1032.8	1040.6
25°	980.4	981.5	999.4	1008.3	1016.1
27.5°	948.1	949.2	970.4	981.5	990.5
30°	912.5	916.9	939.2	953.7	963.7
32.5°	876.8	882.4	906.9	923.6	934.8
35°	838.9	845.6	873.5	892.4	904.7
37.5°	799.9	807.7	837.8	859.0	873.5
40°	761.0	769.9	801.1	825.6	842.3
42.5°	719.7	729.8	764.3	793.3	811.1
45°	678.5	689.6	725.3	759.8	779.9
47.5°	637.3	650.7	688.5	726.4	747.6
50°	594.9	608.3	648.4	691.9	713.0
52.5°	552.6	568.2	612.8	657.3	678.5
55°	511.4	527.0	574.9	621.7	642.9
57.5°	469.0	484.6	537.0	586.0	607.2
60°	425.6	443.4	498.0	548.2	571.5
62.5°	383.3	402.2	460.1	513.6	535.9
65°	340.9	361.0	421.1	476.8	499.1
67.5°	297.5	320.9	383.3	440.1	463.5
70°	255.1	280.8	346.5	403.3	425.6
72.5°	213.9	241.8	309.7	367.7	381.0
75°	172.7	205.0	274.1	306.4	306.4
77.5°	133.7	169.3	234.0	246.2	252.9
80°	96.9	135.9	176.0	190.5	188.3
82.5°	64.6	103.6	125.9	125.9	122.6
85°	36.8	62.4	68.0	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)