

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: P263259

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

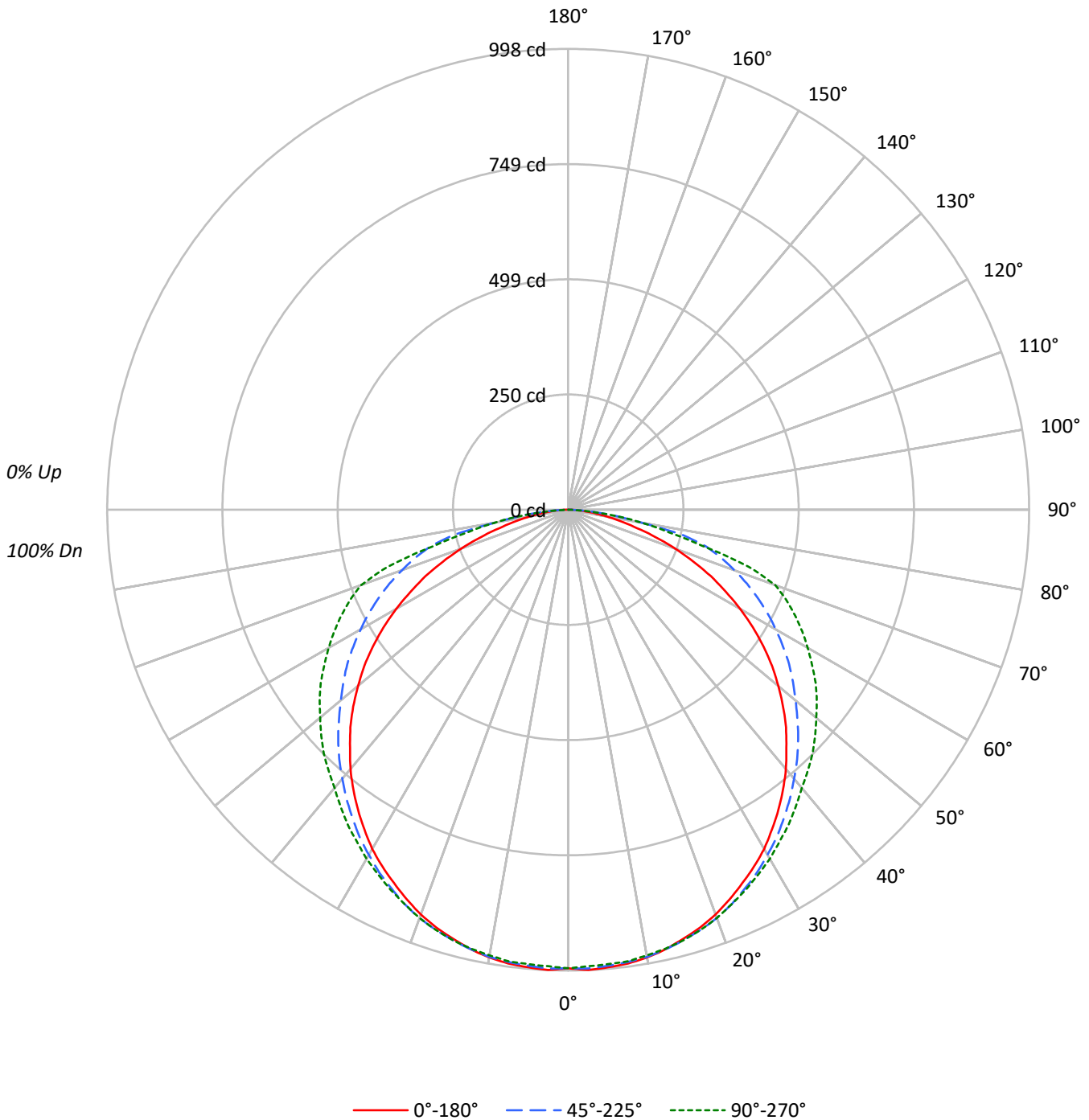
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1336	1336	1336
5°	1343	1339	1335
10°	1345	1343	1339
15°	1340	1345	1345
20°	1336	1347	1347
25°	1325	1344	1349
30°	1318	1341	1356
35°	1303	1338	1367
40°	1288	1336	1382
45°	1269	1340	1423
50°	1243	1345	1467
55°	1210	1370	1534
60°	1157	1397	1611
65°	1085	1441	1725
70°	970	1506	1876
75°	801	1611	1552
80°	654	1244	1257
85°	526	826	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.0
10°-20°	272.1	8.7
20°-30°	415.9	13.2
30°-40°	508.6	16.2
40°-50°	544.2	17.3
50°-60°	521.2	16.6
60°-70°	440.9	14.0
70°-80°	279.5	8.9
80°-90°	64.3	2.0
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°	782.3	24.9
0°-40°	1290.9	41.1
0°-60°	2356.4	75.0
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	995	990	991	990	988	95
15°	962	960	965	965	965	272
25°	892	892	905	909	909	412
35°	793	798	814	826	832	496
45°	667	678	704	733	748	514
55°	516	532	584	633	654	460
65°	341	373	453	514	542	336
75°	154	217	310	308	298	168
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.9	992.9	992.9	992.9	992.9
2.5°	997.8	992.9	994.6	992.9	989.7
5°	994.6	989.7	991.3	989.7	988.1
7.5°	991.3	986.4	988.1	986.4	986.4
10°	984.8	979.9	983.2	981.6	979.9
12.5°	975.1	971.8	975.1	973.5	973.5
15°	962.1	960.5	965.3	965.3	965.3
17.5°	949.1	947.5	954.0	954.0	954.0
20°	932.9	931.3	941.0	941.0	941.0
22.5°	913.4	911.8	924.8	924.8	924.8
25°	892.3	892.3	905.3	908.6	908.6
27.5°	871.2	871.2	885.8	890.7	890.7
30°	848.5	848.5	863.1	869.6	872.9
32.5°	821.0	824.2	840.4	848.5	851.8
35°	793.4	798.2	814.5	825.8	832.3
37.5°	764.2	769.0	788.5	801.5	809.6
40°	733.3	739.8	760.9	777.1	786.9
42.5°	699.3	709.0	733.3	754.4	767.4
45°	666.8	678.2	704.1	733.3	747.9
47.5°	631.1	644.1	673.3	710.6	725.2
50°	593.8	606.8	642.5	684.7	700.9
52.5°	556.5	571.1	613.3	658.7	678.2
55°	515.9	532.2	584.1	632.7	653.8
57.5°	473.8	493.2	551.6	603.5	626.3
60°	429.9	454.3	519.2	574.3	598.7
62.5°	384.5	413.7	486.7	545.1	571.1
65°	340.7	373.2	452.7	514.3	541.9
67.5°	293.7	334.2	418.6	485.1	511.1
70°	246.6	293.7	382.9	451.0	477.0
72.5°	199.6	256.3	347.2	408.9	408.9
75°	154.1	217.4	309.9	308.3	298.5
77.5°	116.8	181.7	254.7	217.4	219.0
80°	84.4	146.0	160.6	160.6	162.2
82.5°	56.8	111.9	103.8	102.2	105.5
85°	34.1	51.9	53.5	48.7	50.3
87.5°	16.2	17.8	14.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)