

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: P263398

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263398
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

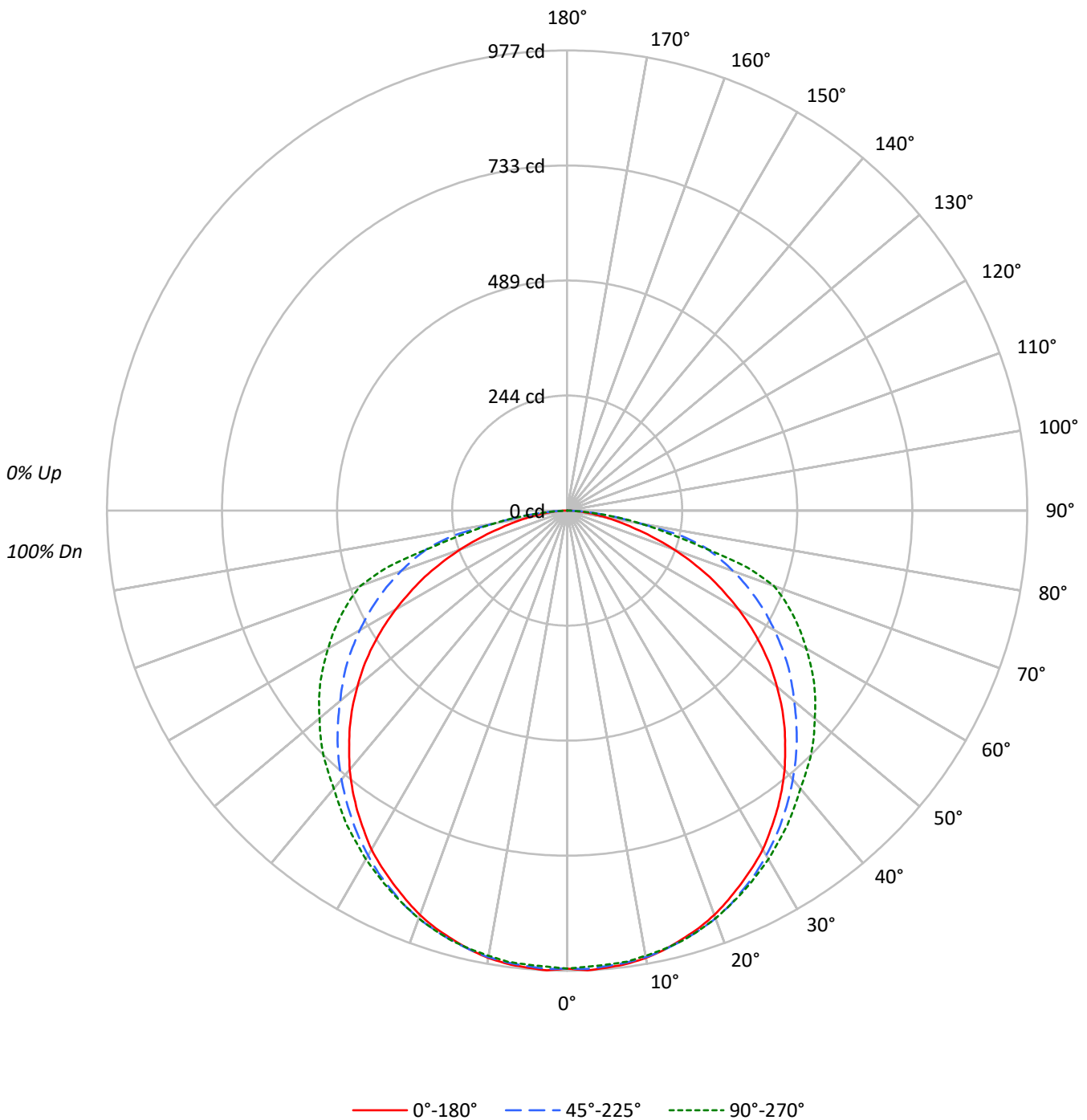
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1308	1308	1308
5°	1316	1311	1307
10°	1318	1315	1311
15°	1312	1317	1317
20°	1308	1319	1319
25°	1297	1316	1321
30°	1291	1313	1328
35°	1276	1310	1339
40°	1261	1309	1353
45°	1243	1312	1394
50°	1217	1317	1437
55°	1185	1342	1502
60°	1133	1368	1578
65°	1062	1411	1690
70°	950	1475	1838
75°	784	1578	1520
80°	640	1219	1231
85°	516	809	761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.0
10°-20°	266.5	8.7
20°-30°	407.3	13.2
30°-40°	498.1	16.2
40°-50°	533.0	17.3
50°-60°	510.4	16.6
60°-70°	431.8	14.0
70°-80°	273.7	8.9
80°-90°	63.0	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°	766.1	24.9
0°-40°	1264.2	41.1
0°-60°	2307.6	75.0
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	974	969	971	969	968	93
15°	942	941	945	945	945	266
25°	874	874	887	890	890	403
35°	777	782	798	809	815	486
45°	653	664	690	718	732	503
55°	505	521	572	620	640	451
65°	334	365	443	504	531	329
75°	151	213	304	302	292	164
85°	33	51	52	48	49	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.4	972.4	972.4	972.4	972.4
2.5°	977.1	972.4	974.0	972.4	969.2
5°	974.0	969.2	970.8	969.2	967.6
7.5°	970.8	966.0	967.6	966.0	966.0
10°	964.4	959.7	962.8	961.3	959.7
12.5°	954.9	951.7	954.9	953.3	953.3
15°	942.2	940.6	945.4	945.4	945.4
17.5°	929.5	927.9	934.2	934.2	934.2
20°	913.6	912.0	921.5	921.5	921.5
22.5°	894.5	892.9	905.6	905.6	905.6
25°	873.9	873.9	886.6	889.8	889.8
27.5°	853.2	853.2	867.5	872.3	872.3
30°	831.0	831.0	845.3	851.6	854.8
32.5°	804.0	807.1	823.0	831.0	834.2
35°	777.0	781.7	797.6	808.7	815.1
37.5°	748.4	753.1	772.2	784.9	792.8
40°	718.2	724.5	745.2	761.1	770.6
42.5°	684.8	694.3	718.2	738.8	751.5
45°	653.0	664.1	689.6	718.2	732.5
47.5°	618.1	630.8	659.4	695.9	710.2
50°	581.5	594.2	629.2	670.5	686.4
52.5°	545.0	559.3	600.6	645.1	664.1
55°	505.3	521.1	572.0	619.7	640.3
57.5°	463.9	483.0	540.2	591.1	613.3
60°	421.0	444.9	508.4	562.5	586.3
62.5°	376.6	405.2	476.7	533.9	559.3
65°	333.7	365.4	443.3	503.7	530.7
67.5°	287.6	327.3	409.9	475.1	500.5
70°	241.5	287.6	375.0	441.7	467.1
72.5°	195.4	251.0	340.0	400.4	400.4
75°	150.9	212.9	303.5	301.9	292.3
77.5°	114.4	178.0	249.5	212.9	214.5
80°	82.6	143.0	157.3	157.3	158.9
82.5°	55.6	109.6	101.7	100.1	103.3
85°	33.4	50.8	52.4	47.7	49.3
87.5°	15.9	17.5	14.3	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)