

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: P263163

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263163
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-LD5-45-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2523.7 lumens
Efficiency: N/A
Efficacy: 78.8 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

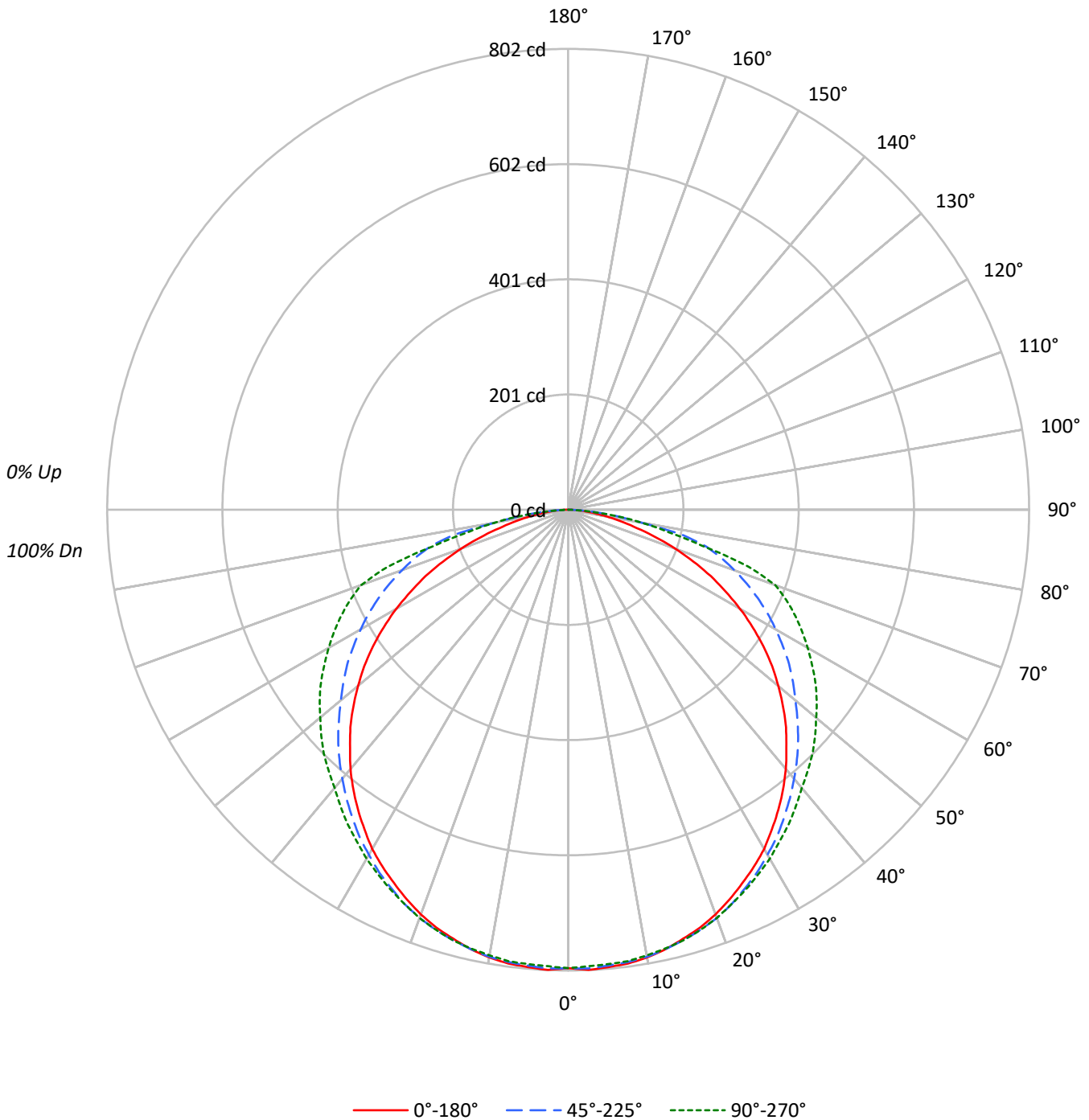
Input Watts (W): 32.031246
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1073	1073	1073
5°	1079	1076	1072
10°	1081	1079	1076
15°	1077	1080	1080
20°	1073	1083	1083
25°	1064	1080	1084
30°	1059	1077	1090
35°	1047	1075	1098
40°	1035	1074	1110
45°	1020	1077	1144
50°	999	1081	1179
55°	972	1101	1232
60°	929	1122	1294
65°	872	1158	1386
70°	779	1210	1508
75°	644	1294	1247
80°	525	1000	1010
85°	423	664	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.0
10°-20°	218.6	8.7
20°-30°	334.2	13.2
30°-40°	408.7	16.2
40°-50°	437.3	17.3
50°-60°	418.7	16.6
60°-70°	354.2	14.0
70°-80°	224.6	8.9
80°-90°	51.6	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°	628.6	24.9
0°-40°	1037.3	41.1
0°-60°	1893.3	75.0
0°-90°	2523.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2523.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	799	795	796	795	794	76
15°	773	772	776	776	776	218
25°	717	717	727	730	730	331
35°	638	641	654	664	669	399
45°	536	545	566	589	601	413
55°	414	428	469	508	525	370
65°	274	300	364	413	435	270
75°	124	175	249	248	240	135
85°	27	42	43	39	40	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.8	797.8	797.8	797.8	797.8
2.5°	801.7	797.8	799.1	797.8	795.2
5°	799.1	795.2	796.5	795.2	793.9
7.5°	796.5	792.6	793.9	792.6	792.6
10°	791.3	787.4	790.0	788.7	787.4
12.5°	783.5	780.8	783.5	782.1	782.1
15°	773.0	771.7	775.6	775.6	775.6
17.5°	762.6	761.3	766.5	766.5	766.5
20°	749.6	748.3	756.1	756.1	756.1
22.5°	733.9	732.6	743.0	743.0	743.0
25°	717.0	717.0	727.4	730.0	730.0
27.5°	700.0	700.0	711.8	715.7	715.7
30°	681.8	681.8	693.5	698.7	701.3
32.5°	659.6	662.2	675.3	681.8	684.4
35°	637.5	641.4	654.4	663.5	668.7
37.5°	614.0	617.9	633.5	644.0	650.5
40°	589.2	594.4	611.4	624.4	632.2
42.5°	561.8	569.7	589.2	606.2	616.6
45°	535.8	544.9	565.8	589.2	601.0
47.5°	507.1	517.5	541.0	571.0	582.7
50°	477.1	487.5	516.2	550.1	563.1
52.5°	447.1	458.9	492.8	529.3	544.9
55°	414.5	427.6	469.3	508.4	525.3
57.5°	380.6	396.3	443.2	484.9	503.2
60°	345.4	365.0	417.1	461.5	481.0
62.5°	308.9	332.4	391.1	438.0	458.9
65°	273.8	299.8	363.7	413.2	435.4
67.5°	235.9	268.5	336.3	389.8	410.6
70°	198.1	235.9	307.6	362.4	383.3
72.5°	160.3	206.0	279.0	328.5	328.5
75°	123.8	174.7	249.0	247.7	239.9
77.5°	93.9	146.0	204.7	174.7	176.0
80°	67.8	117.3	129.1	129.1	130.4
82.5°	45.6	89.9	83.4	82.1	84.7
85°	27.4	41.7	43.0	39.1	40.4
87.5°	13.0	14.3	11.7	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)