

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: P263578

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2406.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

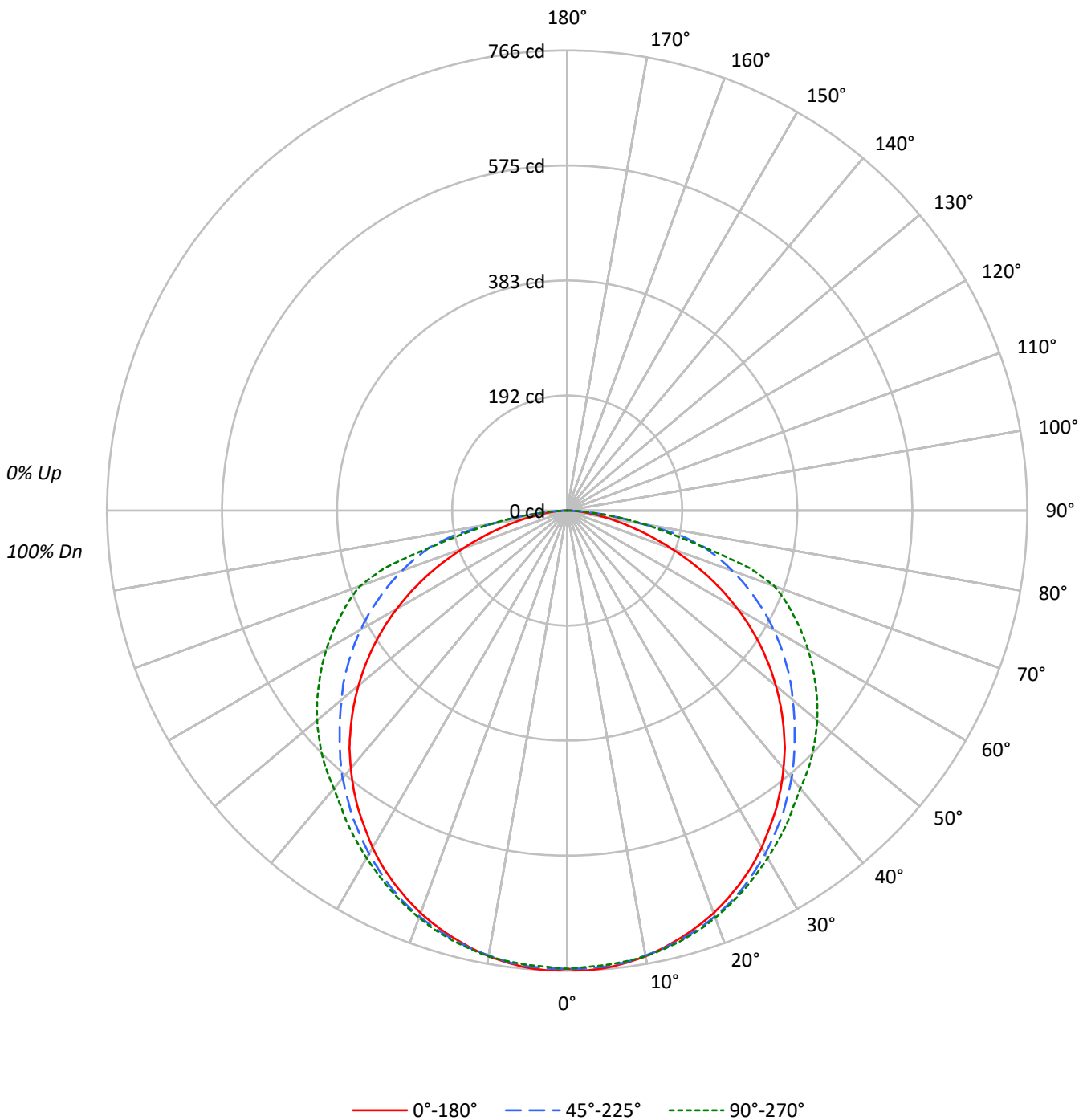
Input Watts (W): 28.809168
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1026	1026	1026
5°	1032	1029	1025
10°	1029	1028	1029
15°	1025	1028	1031
20°	1021	1029	1033
25°	1015	1029	1034
30°	1007	1025	1038
35°	996	1023	1047
40°	984	1021	1061
45°	969	1019	1098
50°	949	1026	1138
55°	922	1045	1184
60°	883	1068	1246
65°	822	1101	1327
70°	727	1151	1445
75°	610	1232	1213
80°	487	972	1010
85°	384	658	604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.0
10°-20°	208.2	8.7
20°-30°	318.0	13.2
30°-40°	388.8	16.2
40°-50°	416.2	17.3
50°-60°	399.2	16.6
60°-70°	337.0	14.0
70°-80°	215.4	9.0
80°-90°	50.9	2.1
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°	598.6	24.9
0°-40°	987.4	41.0
0°-60°	1802.7	74.9
0°-90°	2406.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	764	759	762	760	759	73
15°	736	733	738	740	740	208
25°	683	682	693	695	696	315
35°	606	611	623	631	637	379
45°	509	518	535	560	577	393
55°	393	406	445	486	505	351
65°	258	283	346	394	417	255
75°	117	167	237	242	233	126
85°	25	42	43	42	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.8	762.8	762.8	762.8	762.8
2.5°	766.3	761.6	762.8	762.8	760.4
5°	763.9	759.2	761.6	760.4	759.2
7.5°	759.2	755.7	758.0	758.0	756.8
10°	753.3	749.7	752.1	753.3	753.3
12.5°	745.0	742.6	746.2	746.2	747.4
15°	735.5	733.2	737.9	740.3	740.3
17.5°	724.9	723.7	729.6	730.8	732.0
20°	713.0	711.8	718.9	718.9	721.3
22.5°	698.8	697.6	707.1	707.1	709.5
25°	683.4	682.2	692.9	695.3	696.4
27.5°	666.8	665.6	676.3	679.9	682.2
30°	647.9	647.9	659.7	664.5	668.0
32.5°	626.6	630.1	640.8	647.9	652.6
35°	606.4	611.2	623.0	631.3	637.2
37.5°	583.9	588.7	601.7	612.3	619.4
40°	560.2	566.1	581.5	593.4	604.1
42.5°	536.5	542.5	559.0	576.8	591.0
45°	509.3	517.6	535.4	560.2	576.8
47.5°	482.1	490.3	512.9	543.6	560.2
50°	453.6	463.1	490.3	525.9	543.6
52.5°	424.0	434.7	469.0	506.9	524.7
55°	393.2	406.3	445.3	485.6	504.6
57.5°	361.2	375.5	421.7	464.3	484.4
60°	328.1	345.8	396.8	441.8	463.1
62.5°	293.7	315.1	371.9	418.1	440.6
65°	258.2	283.1	345.8	394.4	416.9
67.5°	221.5	254.6	319.8	370.7	393.2
70°	184.8	223.9	292.5	344.7	367.2
72.5°	150.4	195.4	265.3	313.9	318.6
75°	117.3	167.0	236.9	241.6	233.3
77.5°	87.6	138.6	195.4	174.1	172.9
80°	62.8	111.3	125.5	129.1	130.3
82.5°	41.5	84.1	81.7	84.1	82.9
85°	24.9	41.5	42.6	41.5	39.1
87.5°	11.8	15.4	11.8	10.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)