

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: P263627

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263627
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-LD5-40SE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2188.8 lumens
Efficiency: N/A
Efficacy: 70.4 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

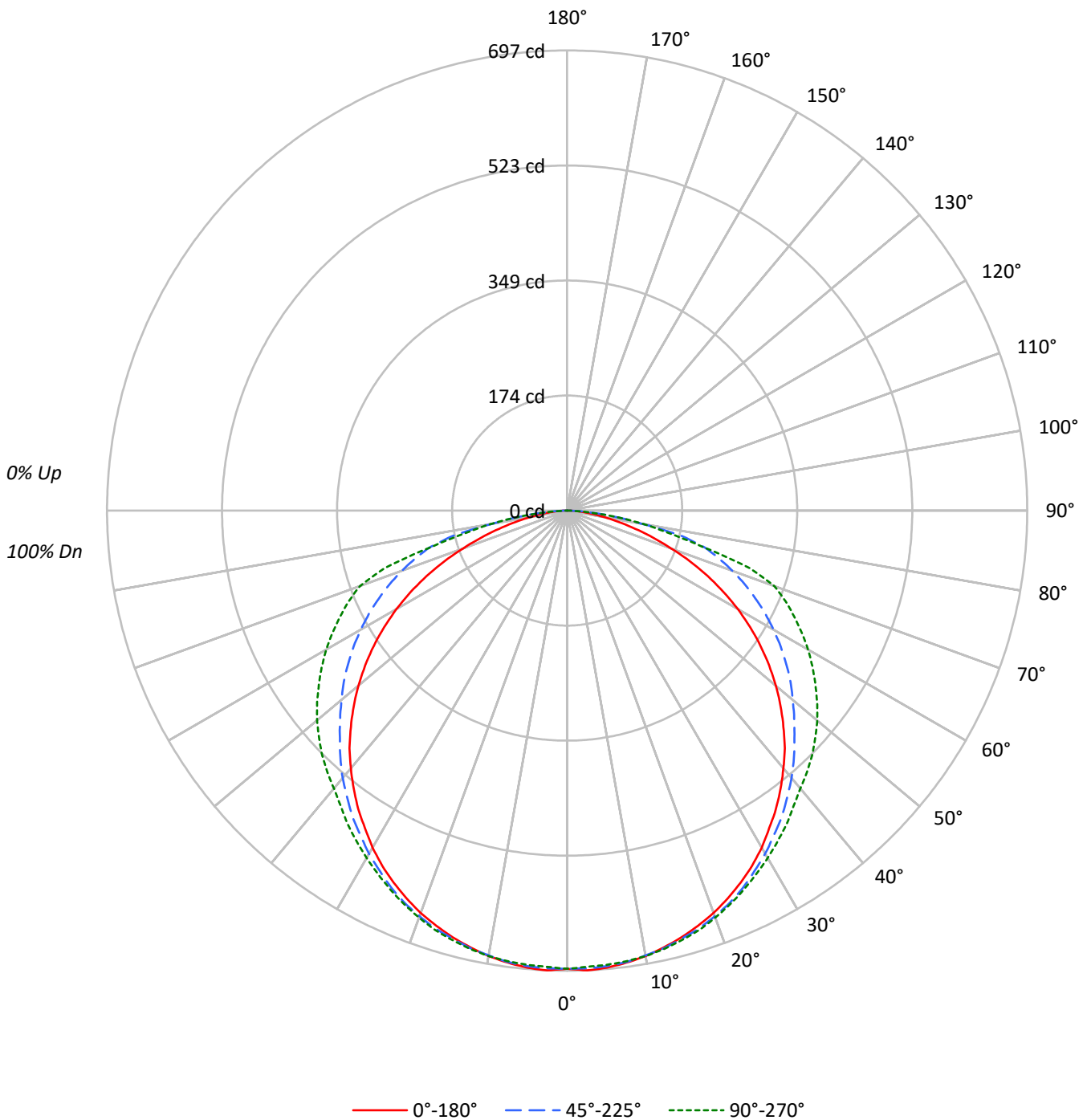
Input Watts (W): 31.110453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	934	934	934
5°	939	936	933
10°	936	935	936
15°	932	935	938
20°	929	936	940
25°	923	936	940
30°	916	932	944
35°	906	931	952
40°	895	929	965
45°	882	927	998
50°	864	934	1035
55°	839	950	1077
60°	803	971	1134
65°	748	1002	1208
70°	661	1047	1314
75°	555	1120	1104
80°	442	885	918
85°	349	599	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.0
10°-20°	189.4	8.7
20°-30°	289.3	13.2
30°-40°	353.7	16.2
40°-50°	378.6	17.3
50°-60°	363.1	16.6
60°-70°	306.6	14.0
70°-80°	195.9	9.0
80°-90°	46.3	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°	544.5	24.9
0°-40°	898.2	41.0
0°-60°	1639.9	74.9
0°-90°	2188.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	691	693	692	691	66
15°	669	667	671	673	673	189
25°	622	621	630	632	634	287
35°	552	556	567	574	580	345
45°	463	471	487	510	525	357
55°	358	370	405	442	459	319
65°	235	258	315	359	379	232
75°	107	152	216	220	212	115
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.9	693.9	693.9	693.9	693.9
2.5°	697.1	692.8	693.9	693.9	691.7
5°	694.9	690.6	692.8	691.7	690.6
7.5°	690.6	687.4	689.6	689.6	688.5
10°	685.2	682.0	684.2	685.2	685.2
12.5°	677.7	675.5	678.8	678.8	679.9
15°	669.1	666.9	671.2	673.4	673.4
17.5°	659.4	658.3	663.7	664.8	665.9
20°	648.6	647.5	654.0	654.0	656.2
22.5°	635.7	634.6	643.2	643.2	645.4
25°	621.7	620.6	630.3	632.5	633.5
27.5°	606.6	605.5	615.2	618.4	620.6
30°	589.4	589.4	600.1	604.4	607.7
32.5°	570.0	573.2	582.9	589.4	593.7
35°	551.6	556.0	566.7	574.3	579.7
37.5°	531.2	535.5	547.3	557.0	563.5
40°	509.6	515.0	529.0	539.8	549.5
42.5°	488.1	493.5	508.5	524.7	537.6
45°	463.3	470.8	487.0	509.6	524.7
47.5°	438.5	446.1	466.5	494.5	509.6
50°	412.7	421.3	446.1	478.4	494.5
52.5°	385.7	395.4	426.7	461.1	477.3
55°	357.7	369.6	405.1	441.7	459.0
57.5°	328.6	341.5	383.6	422.4	440.7
60°	298.4	314.6	360.9	401.9	421.3
62.5°	267.2	286.6	338.3	380.3	400.8
65°	234.9	257.5	314.6	358.8	379.3
67.5°	201.5	231.6	290.9	337.2	357.7
70°	168.1	203.6	266.1	313.5	334.0
72.5°	136.8	177.8	241.3	285.5	289.8
75°	106.7	151.9	215.5	219.8	212.3
77.5°	79.7	126.1	177.8	158.4	157.3
80°	57.1	101.3	114.2	117.4	118.5
82.5°	37.7	76.5	74.3	76.5	75.4
85°	22.6	37.7	38.8	37.7	35.6
87.5°	10.8	14.0	10.8	9.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)