

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: P263582

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263582
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-LD5-45-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.1 lumens
Efficiency: N/A
Efficacy: 75.4 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

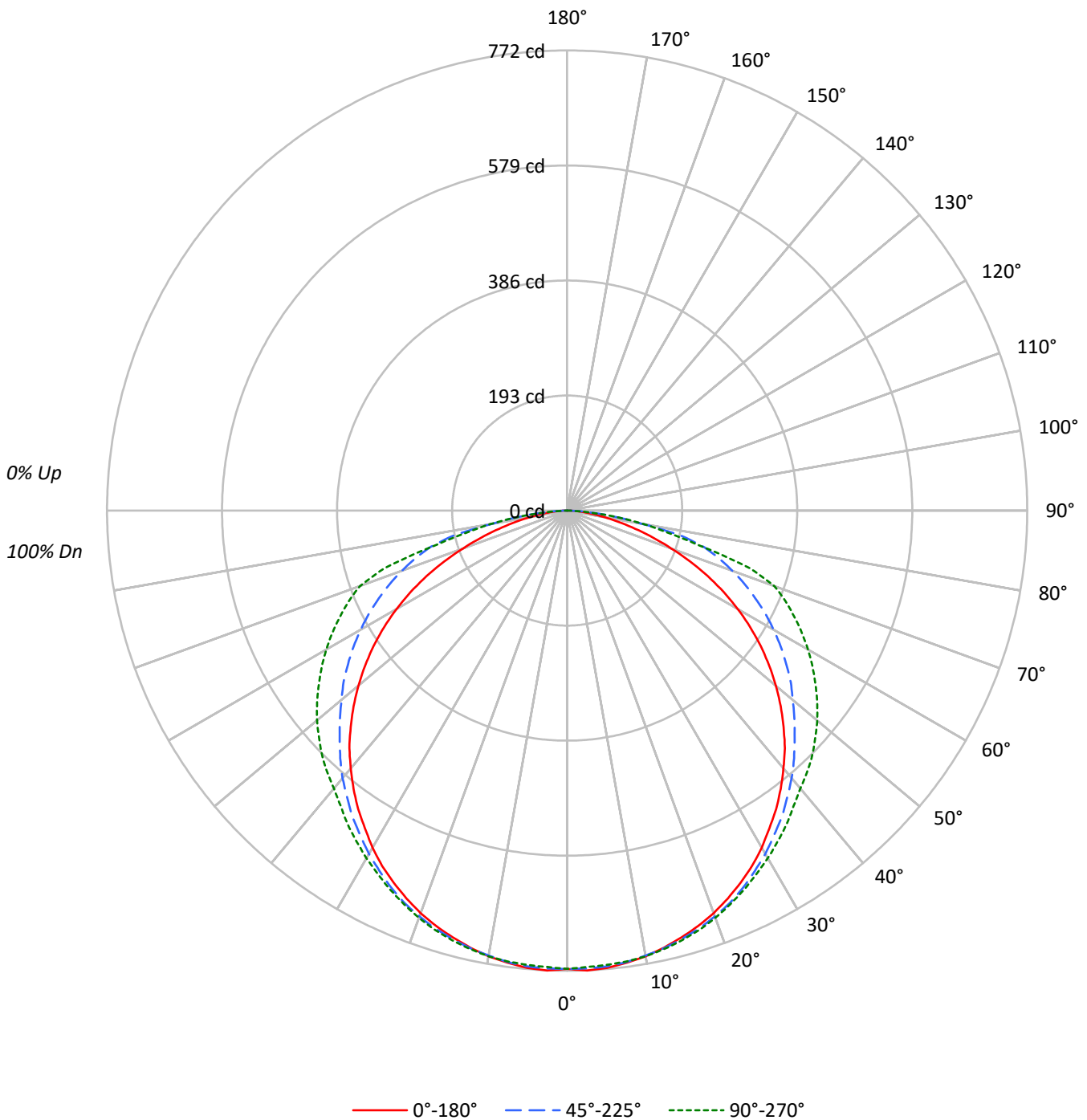
Input Watts (W): 32.156982
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1034	1034	1034
5°	1040	1037	1034
10°	1037	1036	1037
15°	1033	1036	1039
20°	1029	1038	1041
25°	1023	1037	1042
30°	1015	1033	1046
35°	1004	1031	1055
40°	992	1029	1069
45°	977	1027	1106
50°	957	1034	1147
55°	930	1053	1193
60°	890	1076	1256
65°	828	1110	1338
70°	733	1160	1456
75°	614	1241	1223
80°	490	980	1017
85°	387	664	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.0
10°-20°	209.8	8.7
20°-30°	320.5	13.2
30°-40°	391.9	16.2
40°-50°	419.4	17.3
50°-60°	402.3	16.6
60°-70°	339.7	14.0
70°-80°	217.1	9.0
80°-90°	51.3	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°	603.3	24.9
0°-40°	995.2	41.0
0°-60°	1816.9	74.9
0°-90°	2425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	770	765	768	766	765	73
15°	741	739	744	746	746	209
25°	689	688	698	701	702	317
35°	611	616	628	636	642	382
45°	513	522	540	565	581	396
55°	396	410	449	489	508	354
65°	260	285	349	398	420	257
75°	118	168	239	244	235	127
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°	768.8	768.8	768.8	768.8	768.8
2.5°	772.4	767.6	768.8	768.8	766.4
5°	770.0	765.2	767.6	766.4	765.2
7.5°	765.2	761.6	764.0	764.0	762.8
10°	759.2	755.6	758.0	759.2	759.2
12.5°	750.9	748.5	752.1	752.1	753.3
15°	741.3	738.9	743.7	746.1	746.1
17.5°	730.6	729.4	735.3	736.5	737.7
20°	718.6	717.4	724.6	724.6	727.0
22.5°	704.3	703.1	712.7	712.7	715.1
25°	688.8	687.6	698.3	700.7	701.9
27.5°	672.1	670.9	681.6	685.2	687.6
30°	653.0	653.0	664.9	669.7	673.3
32.5°	631.5	635.1	645.8	653.0	657.8
35°	611.2	616.0	627.9	636.3	642.2
37.5°	588.5	593.3	606.4	617.2	624.3
40°	564.6	570.6	586.1	598.1	608.8
42.5°	540.8	546.7	563.4	581.4	595.7
45°	513.3	521.7	539.6	564.6	581.4
47.5°	485.9	494.2	516.9	547.9	564.6
50°	457.2	466.8	494.2	530.0	547.9
52.5°	427.4	438.1	472.7	510.9	528.8
55°	396.3	409.5	448.8	489.4	508.5
57.5°	364.1	378.4	425.0	467.9	488.2
60°	330.7	348.6	399.9	445.3	466.8
62.5°	296.0	317.5	374.8	421.4	444.1
65°	260.2	285.3	348.6	397.5	420.2
67.5°	223.2	256.7	322.3	373.6	396.3
70°	186.2	225.6	294.9	347.4	370.1
72.5°	151.6	197.0	267.4	316.3	321.1
75°	118.2	168.3	238.7	243.5	235.2
77.5°	88.3	139.7	197.0	175.5	174.3
80°	63.3	112.2	126.5	130.1	131.3
82.5°	41.8	84.8	82.4	84.8	83.6
85°	25.1	41.8	43.0	41.8	39.4
87.5°	11.9	15.5	11.9	10.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)