

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: P263894

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263894  
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-LD5-45SE-RDP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2468.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 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

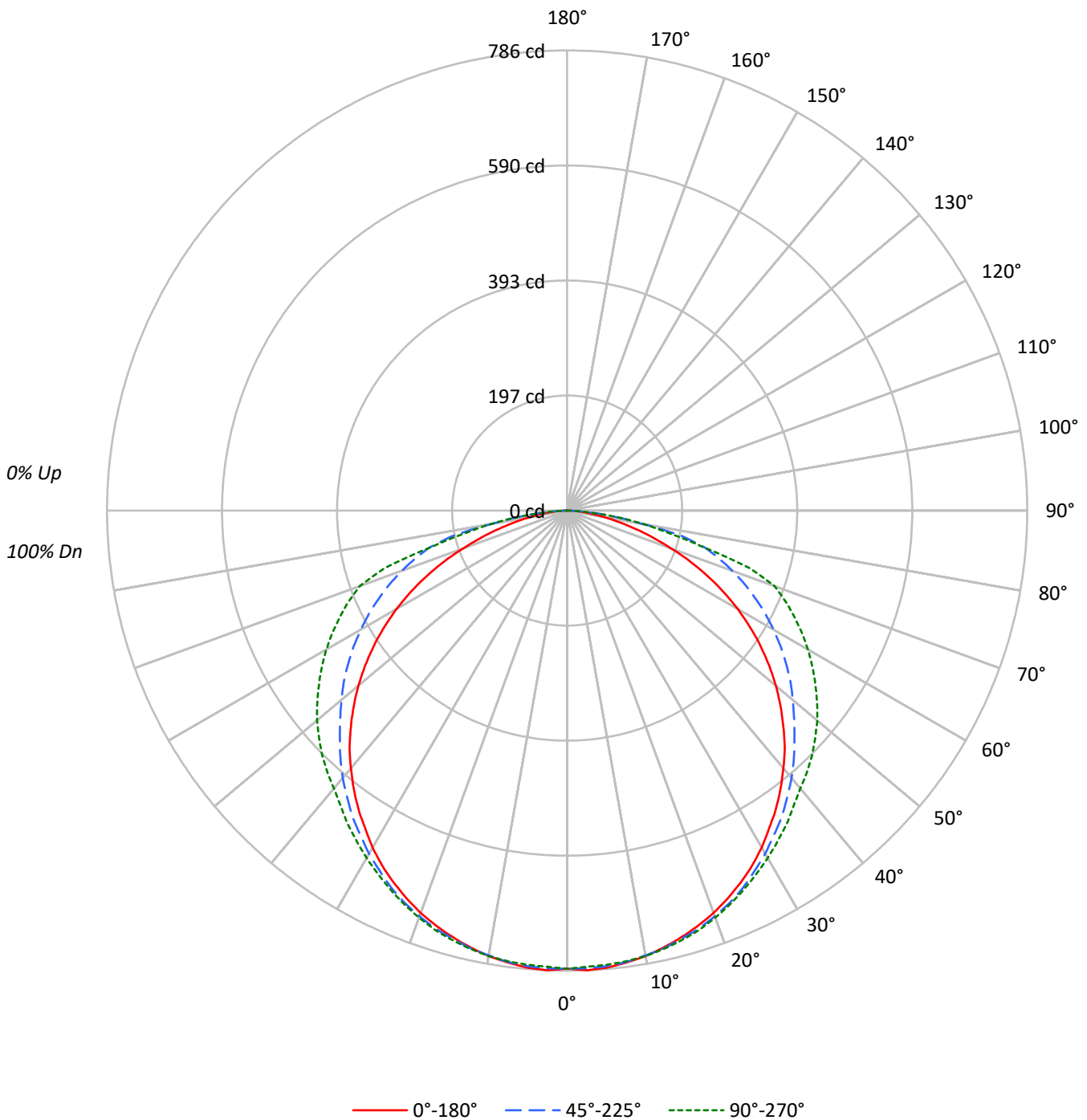
Input Watts (W): 34.875  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1053	1053	1053
5°	1058	1055	1052
10°	1056	1054	1056
15°	1051	1054	1058
20°	1047	1056	1059
25°	1041	1055	1060
30°	1032	1051	1065
35°	1022	1050	1074
40°	1009	1048	1088
45°	994	1045	1126
50°	974	1053	1167
55°	946	1072	1214
60°	906	1095	1278
65°	843	1129	1361
70°	745	1181	1482
75°	625	1263	1244
80°	499	998	1035
85°	394	675	619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	3.0
10°-20°	213.6	8.7
20°-30°	326.2	13.2
30°-40°	398.8	16.2
40°-50°	426.9	17.3
50°-60°	409.4	16.6
60°-70°	345.7	14.0
70°-80°	220.9	9.0
80°-90°	52.2	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°	614.0	24.9
0°-40°	1012.8	41.0
0°-60°	1849.1	74.9
0°-90°	2468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	784	779	781	780	779	74
15°	754	752	757	759	759	213
25°	701	700	711	713	714	323
35°	622	627	639	648	654	389
45°	522	531	549	575	592	403
55°	403	417	457	498	518	360
65°	265	290	355	405	428	261
75°	120	171	243	248	239	129
85°	26	42	44	42	40	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	782.4	782.4	782.4	782.4	782.4
2.5°	786.0	781.2	782.4	782.4	779.9
5°	783.6	778.7	781.2	779.9	778.7
7.5°	778.7	775.1	777.5	777.5	776.3
10°	772.7	769.0	771.4	772.7	772.7
12.5°	764.2	761.7	765.4	765.4	766.6
15°	754.4	752.0	756.9	759.3	759.3
17.5°	743.5	742.3	748.4	749.6	750.8
20°	731.4	730.1	737.4	737.4	739.9
22.5°	716.8	715.6	725.3	725.3	727.7
25°	701.0	699.8	710.7	713.1	714.3
27.5°	684.0	682.8	693.7	697.3	699.8
30°	664.5	664.5	676.7	681.5	685.2
32.5°	642.7	646.3	657.2	664.5	669.4
35°	622.0	626.9	639.0	647.5	653.6
37.5°	598.9	603.8	617.2	628.1	635.4
40°	574.6	580.7	596.5	608.7	619.6
42.5°	550.3	556.4	573.4	591.6	606.2
45°	522.4	530.9	549.1	574.6	591.6
47.5°	494.5	503.0	526.0	557.6	574.6
50°	465.3	475.0	503.0	539.4	557.6
52.5°	434.9	445.9	481.1	520.0	538.2
55°	403.3	416.7	456.8	498.1	517.5
57.5°	370.5	385.1	432.5	476.2	496.9
60°	336.5	354.7	407.0	453.1	475.0
62.5°	301.3	323.2	381.5	428.8	451.9
65°	264.8	290.4	354.7	404.6	427.6
67.5°	227.2	261.2	328.0	380.3	403.3
70°	189.5	229.6	300.1	353.5	376.6
72.5°	154.3	200.5	272.1	321.9	326.8
75°	120.3	171.3	243.0	247.8	239.3
77.5°	89.9	142.1	200.5	178.6	177.4
80°	64.4	114.2	128.8	132.4	133.6
82.5°	42.5	86.3	83.8	86.3	85.0
85°	25.5	42.5	43.7	42.5	40.1
87.5°	12.1	15.8	12.1	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)