

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: P263389

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263389  
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-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2745.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 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

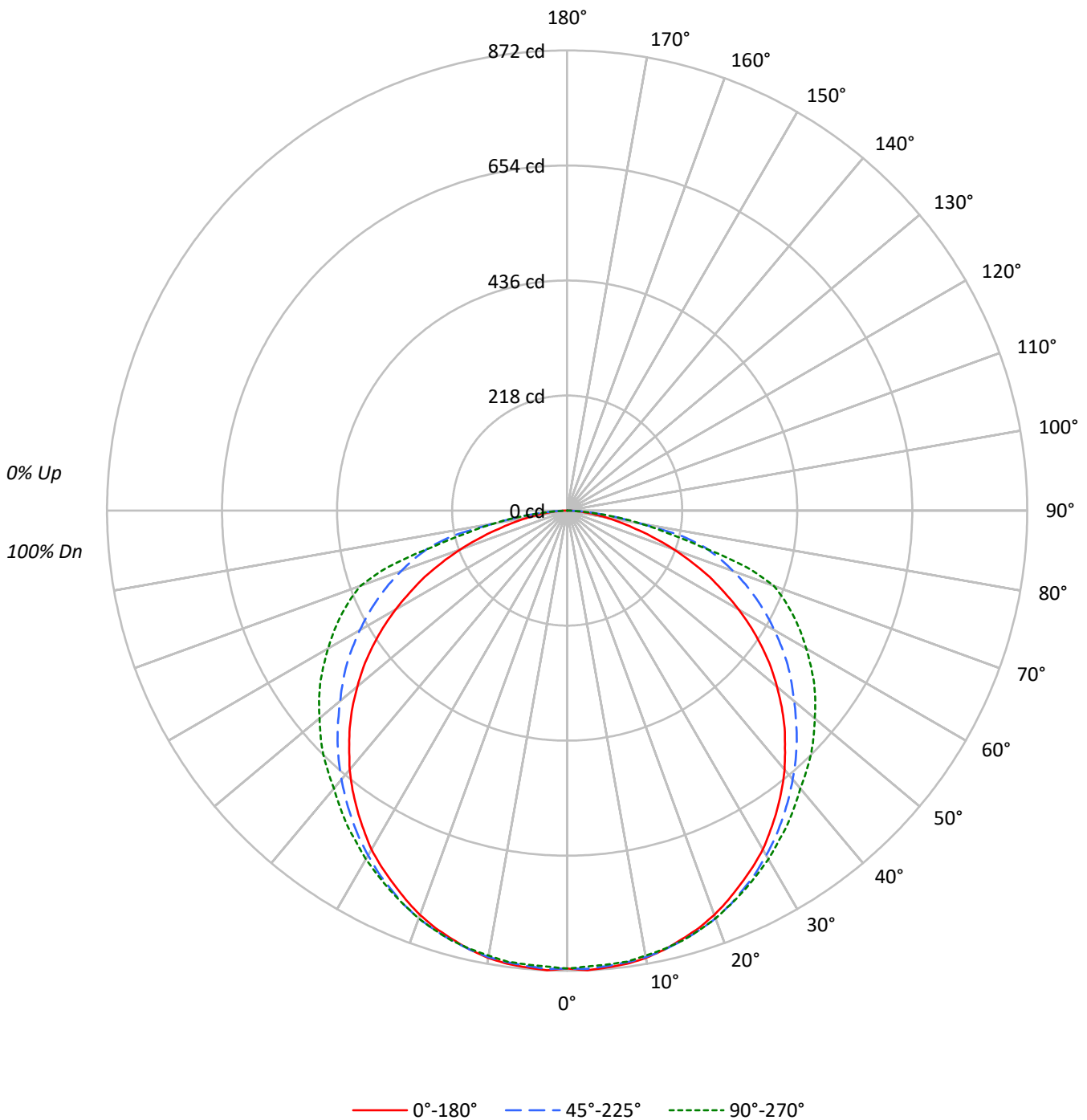
Input Watts (W): 32.178  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1167	1167	1167
5°	1174	1170	1166
10°	1176	1174	1170
15°	1171	1175	1175
20°	1167	1178	1178
25°	1158	1175	1179
30°	1152	1172	1185
35°	1139	1169	1195
40°	1126	1168	1208
45°	1109	1171	1244
50°	1086	1175	1282
55°	1058	1197	1340
60°	1011	1221	1408
65°	948	1259	1508
70°	848	1316	1640
75°	700	1408	1356
80°	571	1088	1099
85°	460	722	679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.0
10°-20°	237.8	8.7
20°-30°	363.5	13.2
30°-40°	444.5	16.2
40°-50°	475.6	17.3
50°-60°	455.5	16.6
60°-70°	385.3	14.0
70°-80°	244.2	8.9
80°-90°	56.2	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°	683.7	24.9
0°-40°	1128.2	41.1
0°-60°	2059.3	75.0
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	869	865	866	865	864	83
15°	841	839	844	844	844	237
25°	780	780	791	794	794	360
35°	693	698	712	722	727	434
45°	583	593	615	641	654	449
55°	451	465	510	553	571	402
65°	298	326	396	450	474	293
75°	135	190	271	269	261	146
85°	30	45	47	42	44	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	867.7	867.7	867.7	867.7	867.7
2.5°	872.0	867.7	869.2	867.7	864.9
5°	869.2	864.9	866.3	864.9	863.5
7.5°	866.3	862.1	863.5	862.1	862.1
10°	860.7	856.4	859.2	857.8	856.4
12.5°	852.1	849.3	852.1	850.7	850.7
15°	840.8	839.4	843.6	843.6	843.6
17.5°	829.5	828.0	833.7	833.7	833.7
20°	815.3	813.9	822.4	822.4	822.4
22.5°	798.3	796.9	808.2	808.2	808.2
25°	779.8	779.8	791.2	794.0	794.0
27.5°	761.4	761.4	774.2	778.4	778.4
30°	741.6	741.6	754.3	760.0	762.8
32.5°	717.5	720.3	734.5	741.6	744.4
35°	693.3	697.6	711.8	721.7	727.4
37.5°	667.8	672.1	689.1	700.4	707.5
40°	640.9	646.6	665.0	679.2	687.7
42.5°	611.1	619.6	640.9	659.3	670.7
45°	582.8	592.7	615.4	640.9	653.6
47.5°	551.6	562.9	588.4	621.0	633.8
50°	518.9	530.3	561.5	598.3	612.5
52.5°	486.3	499.1	536.0	575.7	592.7
55°	450.9	465.1	510.4	553.0	571.4
57.5°	414.0	431.0	482.1	527.5	547.3
60°	375.7	397.0	453.7	501.9	523.2
62.5°	336.0	361.6	425.4	476.4	499.1
65°	297.8	326.1	395.6	449.5	473.6
67.5°	256.6	292.1	365.8	423.9	446.6
70°	215.5	256.6	334.6	394.2	416.9
72.5°	174.4	224.0	303.4	357.3	357.3
75°	134.7	190.0	270.8	269.4	260.9
77.5°	102.1	158.8	222.6	190.0	191.4
80°	73.7	127.6	140.4	140.4	141.8
82.5°	49.6	97.8	90.7	89.3	92.2
85°	29.8	45.4	46.8	42.5	44.0
87.5°	14.2	15.6	12.8	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)