

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: P263484

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263484  
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-LD5-50SE-SQP-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2698.0 lumens  
Efficiency: N/A  
Efficacy: 68.6 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

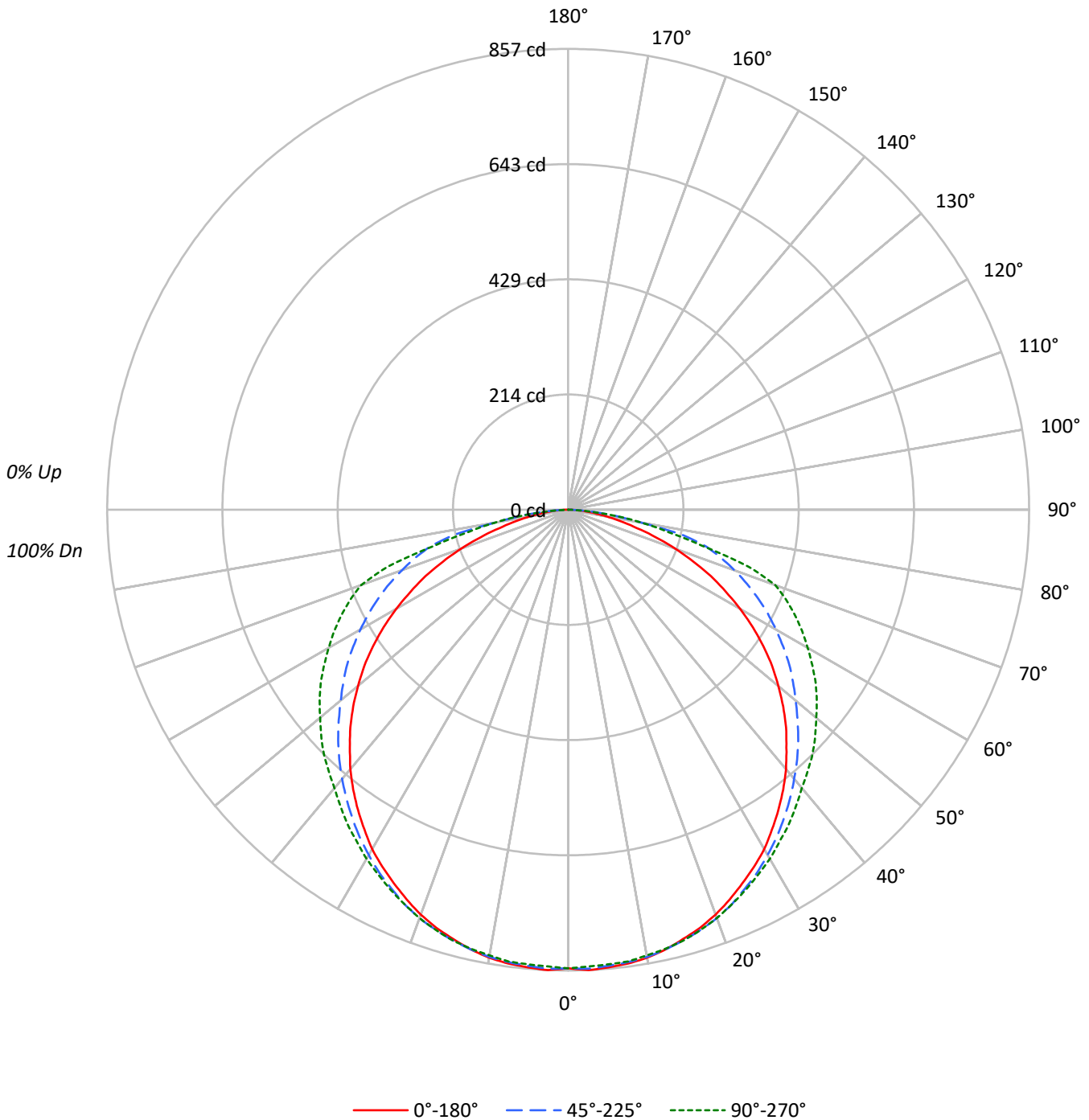
Input Watts (W): 39.339  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1148	1148	1148
5°	1154	1150	1146
10°	1156	1154	1150
15°	1151	1155	1155
20°	1147	1157	1157
25°	1138	1154	1159
30°	1132	1152	1165
35°	1119	1149	1174
40°	1106	1148	1187
45°	1090	1151	1223
50°	1068	1155	1260
55°	1040	1177	1317
60°	994	1200	1384
65°	932	1238	1482
70°	833	1294	1612
75°	688	1384	1333
80°	562	1069	1080
85°	452	710	667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	3.0
10°-20°	233.7	8.7
20°-30°	357.2	13.2
30°-40°	436.9	16.2
40°-50°	467.5	17.3
50°-60°	447.7	16.6
60°-70°	378.7	14.0
70°-80°	240.0	8.9
80°-90°	55.2	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°	672.0	24.9
0°-40°	1108.9	41.1
0°-60°	2024.0	75.0
0°-90°	2698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	854	850	852	850	849	81
15°	826	825	829	829	829	233
25°	766	766	778	780	780	354
35°	682	686	700	709	715	426
45°	573	582	605	630	642	441
55°	443	457	502	544	562	395
65°	293	320	389	442	466	288
75°	132	187	266	265	256	144
85°	29	45	46	42	43	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	852.9	852.9	852.9	852.9	852.9
2.5°	857.1	852.9	854.3	852.9	850.1
5°	854.3	850.1	851.5	850.1	848.7
7.5°	851.5	847.3	848.7	847.3	847.3
10°	845.9	841.7	844.5	843.1	841.7
12.5°	837.6	834.8	837.6	836.2	836.2
15°	826.4	825.0	829.2	829.2	829.2
17.5°	815.3	813.9	819.4	819.4	819.4
20°	801.3	799.9	808.3	808.3	808.3
22.5°	784.6	783.2	794.4	794.4	794.4
25°	766.5	766.5	777.6	780.4	780.4
27.5°	748.4	748.4	760.9	765.1	765.1
30°	728.9	728.9	741.4	747.0	749.8
32.5°	705.2	708.0	721.9	728.9	731.6
35°	681.5	685.7	699.6	709.3	714.9
37.5°	656.4	660.6	677.3	688.4	695.4
40°	629.9	635.5	653.6	667.5	675.9
42.5°	600.6	609.0	629.9	648.0	659.2
45°	572.8	582.5	604.8	629.9	642.5
47.5°	542.1	553.3	578.3	610.4	622.9
50°	510.1	521.2	551.9	588.1	602.0
52.5°	478.0	490.6	526.8	565.8	582.5
55°	443.2	457.1	501.7	543.5	561.6
57.5°	406.9	423.7	473.8	518.4	537.9
60°	369.3	390.2	446.0	493.3	514.2
62.5°	330.3	355.4	418.1	468.3	490.6
65°	292.7	320.5	388.8	441.8	465.5
67.5°	252.2	287.1	359.6	416.7	439.0
70°	211.8	252.2	328.9	387.4	409.7
72.5°	171.4	220.2	298.2	351.2	351.2
75°	132.4	186.7	266.2	264.8	256.4
77.5°	100.3	156.1	218.8	186.7	188.1
80°	72.5	125.4	138.0	138.0	139.4
82.5°	48.8	96.2	89.2	87.8	90.6
85°	29.3	44.6	46.0	41.8	43.2
87.5°	13.9	15.3	12.5	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)