

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: P263455

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263455  
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-LD5-30SE-SQP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1906.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

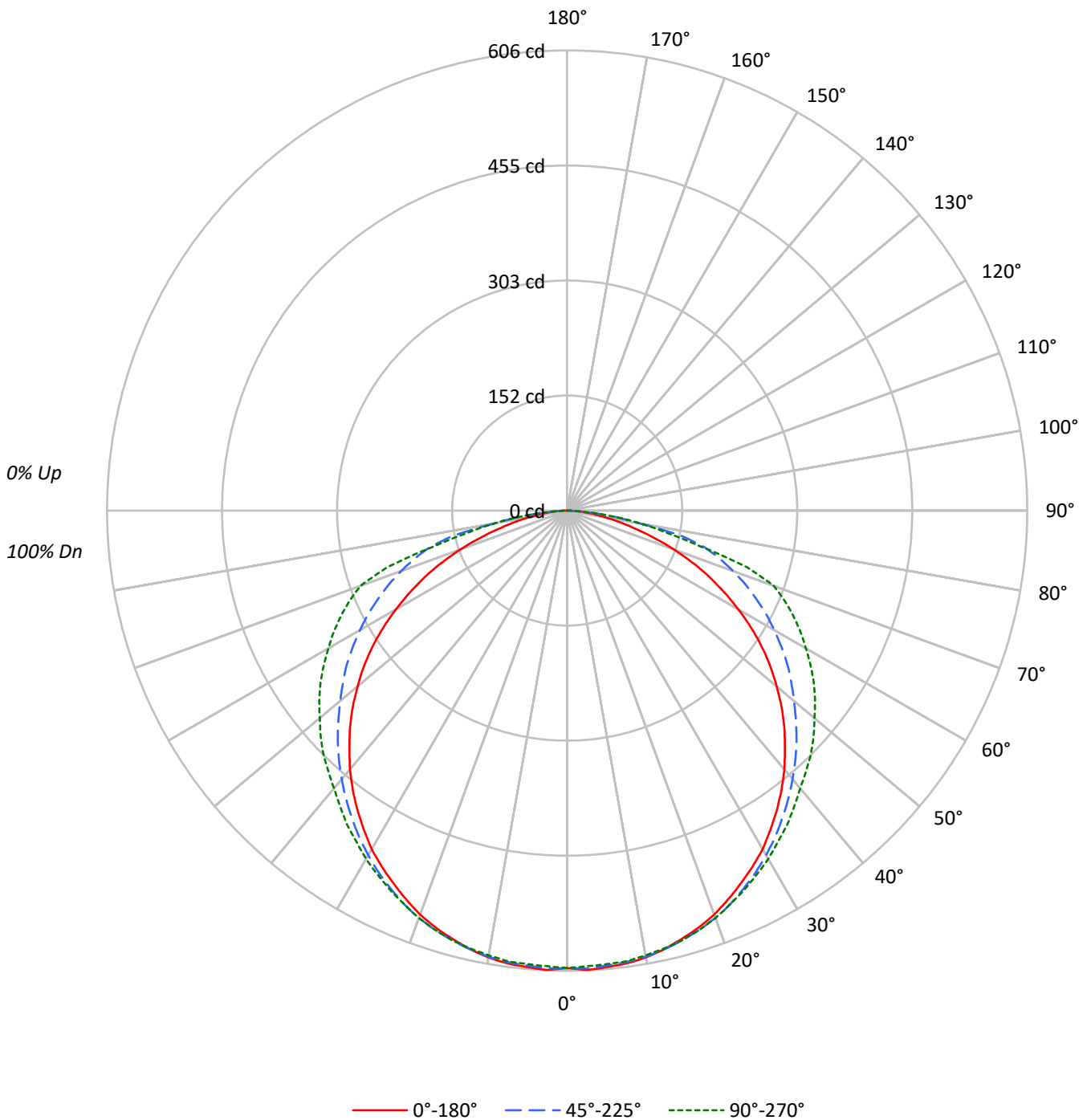
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	811	811	811
5°	815	812	810
10°	816	815	812
15°	813	816	816
20°	811	818	818
25°	804	816	818
30°	800	814	823
35°	791	812	830
40°	782	811	839
45°	770	813	864
50°	754	816	890
55°	734	831	931
60°	702	848	978
65°	658	875	1047
70°	589	914	1138
75°	486	977	942
80°	397	755	763
85°	320	502	471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	3.0
10°-20°	165.1	8.7
20°-30°	252.4	13.2
30°-40°	308.7	16.2
40°-50°	330.3	17.3
50°-60°	316.2	16.6
60°-70°	267.5	14.0
70°-80°	169.6	8.9
80°-90°	39.0	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°	474.7	24.9
0°-40°	783.4	41.1
0°-60°	1429.9	75.0
0°-90°	1906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	604	601	602	601	600	57
15°	584	583	586	586	586	165
25°	542	542	549	551	551	250
35°	481	484	494	501	505	301
45°	405	412	427	445	454	312
55°	313	323	354	384	397	279
65°	207	226	275	312	329	204
75°	94	132	188	187	181	102
85°	21	32	32	30	30	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	602.5	602.5	602.5	602.5	602.5
2.5°	605.5	602.5	603.5	602.5	600.6
5°	603.5	600.6	601.5	600.6	599.6
7.5°	601.5	598.6	599.6	598.6	598.6
10°	597.6	594.6	596.6	595.6	594.6
12.5°	591.7	589.7	591.7	590.7	590.7
15°	583.8	582.8	585.8	585.8	585.8
17.5°	575.9	575.0	578.9	578.9	578.9
20°	566.1	565.1	571.0	571.0	571.0
22.5°	554.3	553.3	561.2	561.2	561.2
25°	541.5	541.5	549.4	551.3	551.3
27.5°	528.7	528.7	537.5	540.5	540.5
30°	514.9	514.9	523.8	527.7	529.7
32.5°	498.2	500.1	510.0	514.9	516.9
35°	481.4	484.4	494.2	501.1	505.1
37.5°	463.7	466.7	478.5	486.3	491.3
40°	445.0	448.9	461.7	471.6	477.5
42.5°	424.3	430.2	445.0	457.8	465.7
45°	404.6	411.5	427.3	445.0	453.9
47.5°	383.0	390.9	408.6	431.2	440.1
50°	360.3	368.2	389.9	415.5	425.3
52.5°	337.7	346.5	372.1	399.7	411.5
55°	313.1	322.9	354.4	384.0	396.8
57.5°	287.5	299.3	334.7	366.2	380.0
60°	260.9	275.7	315.0	348.5	363.3
62.5°	233.3	251.1	295.4	330.8	346.5
65°	206.7	226.4	274.7	312.1	328.8
67.5°	178.2	202.8	254.0	294.4	310.1
70°	149.6	178.2	232.3	273.7	289.4
72.5°	121.1	155.6	210.7	248.1	248.1
75°	93.5	131.9	188.0	187.1	181.2
77.5°	70.9	110.3	154.6	131.9	132.9
80°	51.2	88.6	97.5	97.5	98.5
82.5°	34.5	67.9	63.0	62.0	64.0
85°	20.7	31.5	32.5	29.5	30.5
87.5°	9.8	10.8	8.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)