

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: P263450

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263450
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

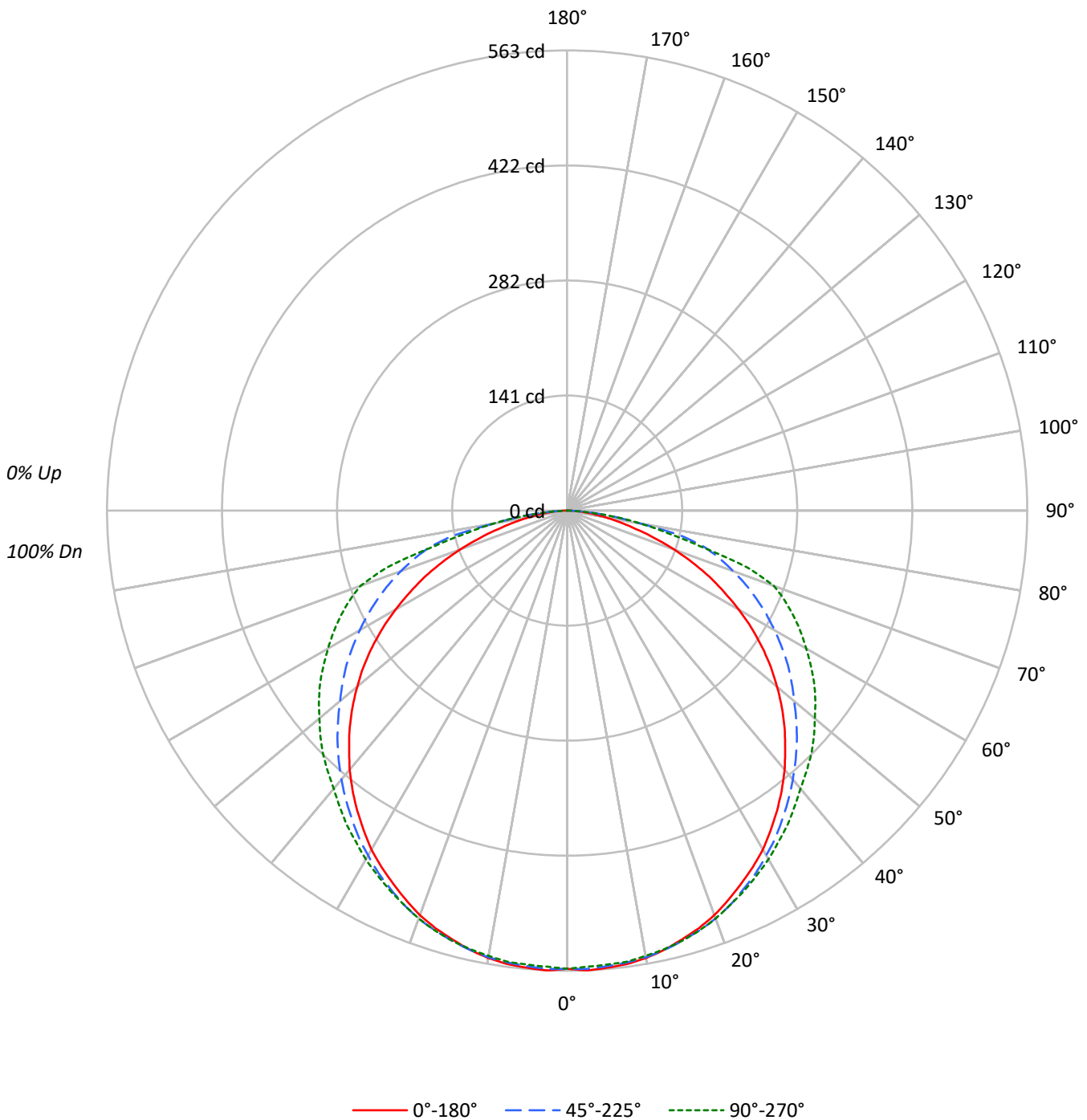
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	754	754	754
5°	758	756	753
10°	759	758	756
15°	757	759	759
20°	754	761	761
25°	748	759	761
30°	744	757	765
35°	736	755	772
40°	727	754	780
45°	716	756	803
50°	702	759	828
55°	683	773	866
60°	653	789	909
65°	612	813	974
70°	548	850	1059
75°	452	909	876
80°	369	703	710
85°	296	466	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.0
10°-20°	153.6	8.7
20°-30°	234.8	13.2
30°-40°	287.1	16.2
40°-50°	307.2	17.3
50°-60°	294.2	16.6
60°-70°	248.9	14.0
70°-80°	157.7	8.9
80°-90°	36.3	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°	441.6	24.9
0°-40°	728.7	41.1
0°-60°	1330.1	75.0
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	561	559	560	559	558	53
15°	543	542	545	545	545	153
25°	504	504	511	513	513	232
35°	448	451	460	466	470	280
45°	376	383	398	414	422	290
55°	291	300	330	357	369	260
65°	192	211	256	290	306	189
75°	87	123	175	174	168	95
85°	19	29	30	28	28	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	560.5	560.5	560.5	560.5	560.5
2.5°	563.2	560.5	561.4	560.5	558.6
5°	561.4	558.6	559.6	558.6	557.7
7.5°	559.6	556.8	557.7	556.8	556.8
10°	555.9	553.2	555.0	554.1	553.2
12.5°	550.4	548.6	550.4	549.5	549.5
15°	543.1	542.2	544.9	544.9	544.9
17.5°	535.8	534.8	538.5	538.5	538.5
20°	526.6	525.7	531.2	531.2	531.2
22.5°	515.6	514.7	522.0	522.0	522.0
25°	503.7	503.7	511.0	512.9	512.9
27.5°	491.8	491.8	500.0	502.8	502.8
30°	479.0	479.0	487.2	490.9	492.7
32.5°	463.4	465.2	474.4	479.0	480.8
35°	447.8	450.6	459.7	466.1	469.8
37.5°	431.3	434.1	445.1	452.4	457.0
40°	413.9	417.6	429.5	438.7	444.2
42.5°	394.7	400.2	413.9	425.9	433.2
45°	376.4	382.8	397.5	413.9	422.2
47.5°	356.3	363.6	380.1	401.1	409.4
50°	335.2	342.5	362.7	386.5	395.6
52.5°	314.1	322.4	346.2	371.8	382.8
55°	291.2	300.4	329.7	357.2	369.1
57.5°	267.4	278.4	311.4	340.7	353.5
60°	242.7	256.4	293.1	324.2	337.9
62.5°	217.0	233.5	274.7	307.7	322.4
65°	192.3	210.6	255.5	290.3	305.9
67.5°	165.8	188.7	236.3	273.8	288.5
70°	139.2	165.8	216.1	254.6	269.2
72.5°	112.6	144.7	196.0	230.8	230.8
75°	87.0	122.7	174.9	174.0	168.5
77.5°	65.9	102.6	143.8	122.7	123.6
80°	47.6	82.4	90.7	90.7	91.6
82.5°	32.1	63.2	58.6	57.7	59.5
85°	19.2	29.3	30.2	27.5	28.4
87.5°	9.2	10.1	8.2	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)