

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: P263147

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263147
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-LD5-30-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.2 lumens
Efficiency: N/A
Efficacy: 78.8 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

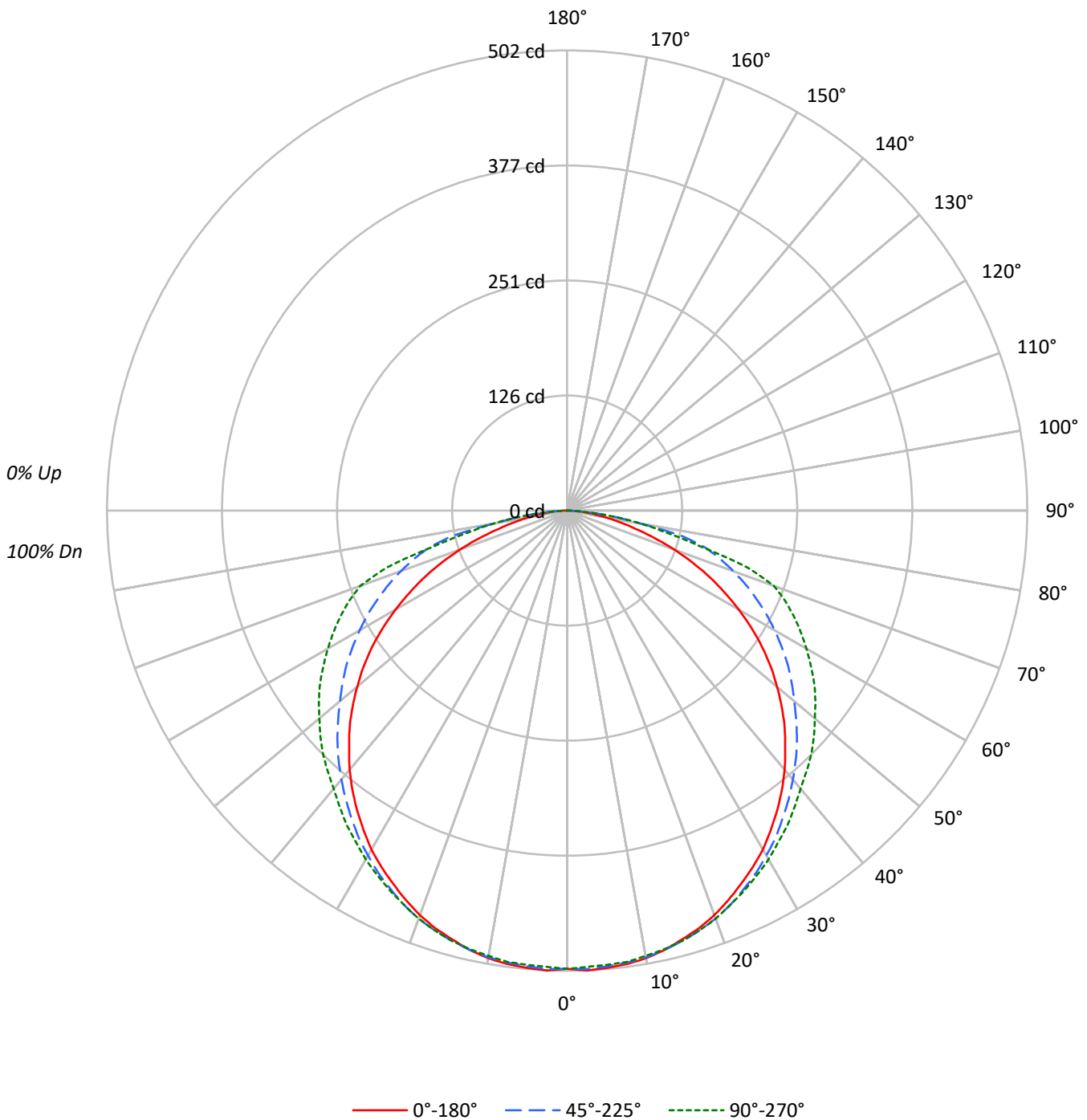
Input Watts (W): 20.074329
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263147

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263147

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3000K

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°	672	672	672
5°	676	674	672
10°	677	676	674
15°	675	677	677
20°	672	678	678
25°	667	677	679
30°	664	675	683
35°	656	673	688
40°	648	673	696
45°	639	675	716
50°	626	677	738
55°	609	690	772
60°	582	703	811
65°	546	726	869
70°	488	758	945
75°	403	811	781
80°	329	627	633
85°	266	417	391



TEST NUMBER: P263147

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.0
10°-20°	137.0	8.7
20°-30°	209.4	13.2
30°-40°	256.0	16.2
40°-50°	274.0	17.3
50°-60°	262.4	16.6
60°-70°	221.9	14.0
70°-80°	140.7	8.9
80°-90°	32.4	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°	393.8	24.9
0°-40°	649.9	41.1
0°-60°	1186.2	75.0
0°-90°	1581.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	501	498	499	498	497	48
15°	484	484	486	486	486	137
25°	449	449	456	457	457	207
35°	399	402	410	416	419	250
45°	336	341	354	369	376	259
55°	260	268	294	318	329	232
65°	172	188	228	259	273	169
75°	78	109	156	155	150	84
85°	17	26	27	24	25	20
90°	0	0	0	0	0	



TEST NUMBER: P263147

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.8	499.8	499.8	499.8	499.8
2.5°	502.3	499.8	500.7	499.8	498.2
5°	500.7	498.2	499.0	498.2	497.4
7.5°	499.0	496.6	497.4	496.6	496.6
10°	495.8	493.3	494.9	494.1	493.3
12.5°	490.9	489.2	490.9	490.0	490.0
15°	484.3	483.5	486.0	486.0	486.0
17.5°	477.8	477.0	480.2	480.2	480.2
20°	469.6	468.8	473.7	473.7	473.7
22.5°	459.8	459.0	465.5	465.5	465.5
25°	449.2	449.2	455.7	457.4	457.4
27.5°	438.6	438.6	445.9	448.4	448.4
30°	427.1	427.1	434.5	437.8	439.4
32.5°	413.3	414.9	423.1	427.1	428.8
35°	399.4	401.8	410.0	415.7	419.0
37.5°	384.7	387.1	396.9	403.5	407.5
40°	369.2	372.4	383.0	391.2	396.1
42.5°	352.0	356.9	369.2	379.8	386.3
45°	335.7	341.4	354.5	369.2	376.5
47.5°	317.7	324.2	338.9	357.7	365.1
50°	298.9	305.5	323.4	344.7	352.8
52.5°	280.1	287.5	308.7	331.6	341.4
55°	259.7	267.9	294.0	318.5	329.1
57.5°	238.5	248.3	277.7	303.8	315.3
60°	216.4	228.7	261.4	289.1	301.4
62.5°	193.6	208.3	245.0	274.4	287.5
65°	171.5	187.8	227.9	258.9	272.8
67.5°	147.8	168.2	210.7	244.2	257.3
70°	124.1	147.8	192.7	227.0	240.1
72.5°	100.5	129.0	174.8	205.8	205.8
75°	77.6	109.4	156.0	155.2	150.3
77.5°	58.8	91.5	128.2	109.4	110.3
80°	42.5	73.5	80.9	80.9	81.7
82.5°	28.6	56.4	52.3	51.5	53.1
85°	17.2	26.1	27.0	24.5	25.3
87.5°	8.2	9.0	7.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)