

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: P263148

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263148
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1727.5 lumens
Efficiency: N/A
Efficacy: 86.4 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

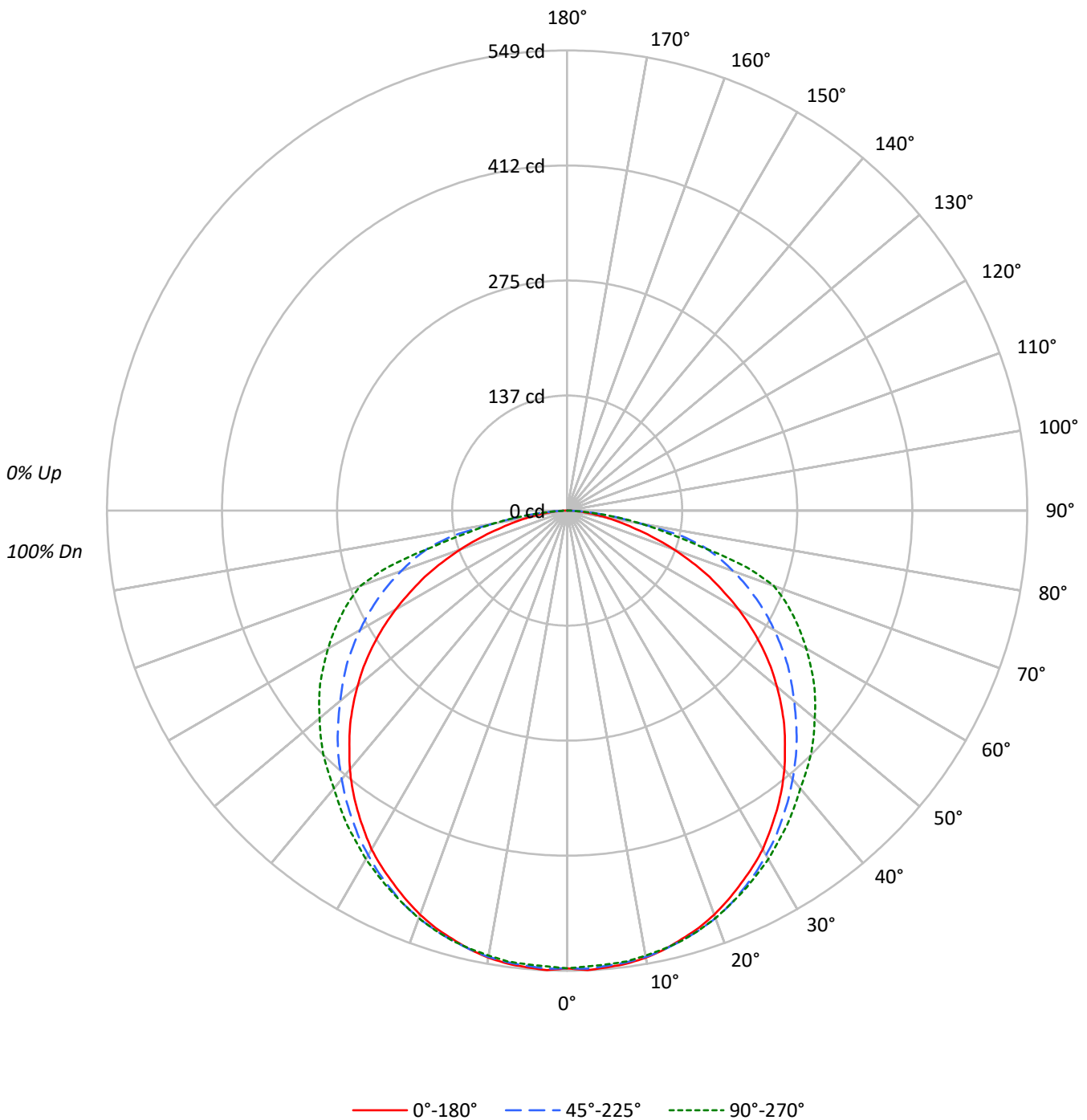
Input Watts (W): 19.995837
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263148

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263148

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3500K

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°	735	735	735
5°	739	736	734
10°	740	739	736
15°	737	740	740
20°	735	741	741
25°	729	739	742
30°	725	738	746
35°	717	736	752
40°	708	735	760
45°	698	737	783
50°	684	740	807
55°	666	753	844
60°	636	768	886
65°	597	793	949
70°	533	828	1032
75°	441	886	854
80°	360	684	691
85°	289	454	428



TEST NUMBER: P263148

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.0
10°-20°	149.7	8.7
20°-30°	228.7	13.2
30°-40°	279.8	16.2
40°-50°	299.3	17.3
50°-60°	286.6	16.6
60°-70°	242.5	14.0
70°-80°	153.7	8.9
80°-90°	35.4	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°	430.3	24.9
0°-40°	710.0	41.1
0°-60°	1296.0	75.0
0°-90°	1727.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1727.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	547	544	545	544	543	52
15°	529	528	531	531	531	149
25°	491	491	498	500	500	226
35°	436	439	448	454	458	273
45°	367	373	387	403	411	283
55°	284	293	321	348	360	253
65°	187	205	249	283	298	185
75°	85	120	170	170	164	92
85°	19	29	29	27	28	22
90°	0	0	0	0	0	



TEST NUMBER: P263148

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.1	546.1	546.1	546.1	546.1
2.5°	548.8	546.1	547.0	546.1	544.3
5°	547.0	544.3	545.2	544.3	543.4
7.5°	545.2	542.5	543.4	542.5	542.5
10°	541.6	539.0	540.7	539.8	539.0
12.5°	536.3	534.5	536.3	535.4	535.4
15°	529.1	528.2	530.9	530.9	530.9
17.5°	522.0	521.1	524.7	524.7	524.7
20°	513.1	512.2	517.5	517.5	517.5
22.5°	502.4	501.5	508.6	508.6	508.6
25°	490.8	490.8	497.9	499.7	499.7
27.5°	479.2	479.2	487.2	489.9	489.9
30°	466.7	466.7	474.7	478.3	480.1
32.5°	451.5	453.3	462.2	466.7	468.5
35°	436.3	439.0	447.9	454.2	457.8
37.5°	420.3	423.0	433.7	440.8	445.3
40°	403.3	406.9	418.5	427.4	432.8
42.5°	384.6	389.9	403.3	414.9	422.1
45°	366.7	373.0	387.3	403.3	411.4
47.5°	347.1	354.2	370.3	390.8	398.9
50°	326.6	333.7	353.4	376.6	385.5
52.5°	306.1	314.1	337.3	362.3	373.0
55°	283.8	292.7	321.2	348.0	359.6
57.5°	260.6	271.3	303.4	331.9	344.4
60°	236.5	249.8	285.5	315.9	329.3
62.5°	211.5	227.5	267.7	299.8	314.1
65°	187.4	205.2	249.0	282.9	298.0
67.5°	161.5	183.8	230.2	266.8	281.1
70°	135.6	161.5	210.6	248.1	262.3
72.5°	109.8	141.0	191.0	224.9	224.9
75°	84.8	119.6	170.4	169.5	164.2
77.5°	64.2	99.9	140.1	119.6	120.5
80°	46.4	80.3	88.3	88.3	89.2
82.5°	31.2	61.6	57.1	56.2	58.0
85°	18.7	28.6	29.4	26.8	27.7
87.5°	8.9	9.8	8.0	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)