

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: P263447

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263447
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.0 lumens
Efficiency: N/A
Efficacy: 72.6 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

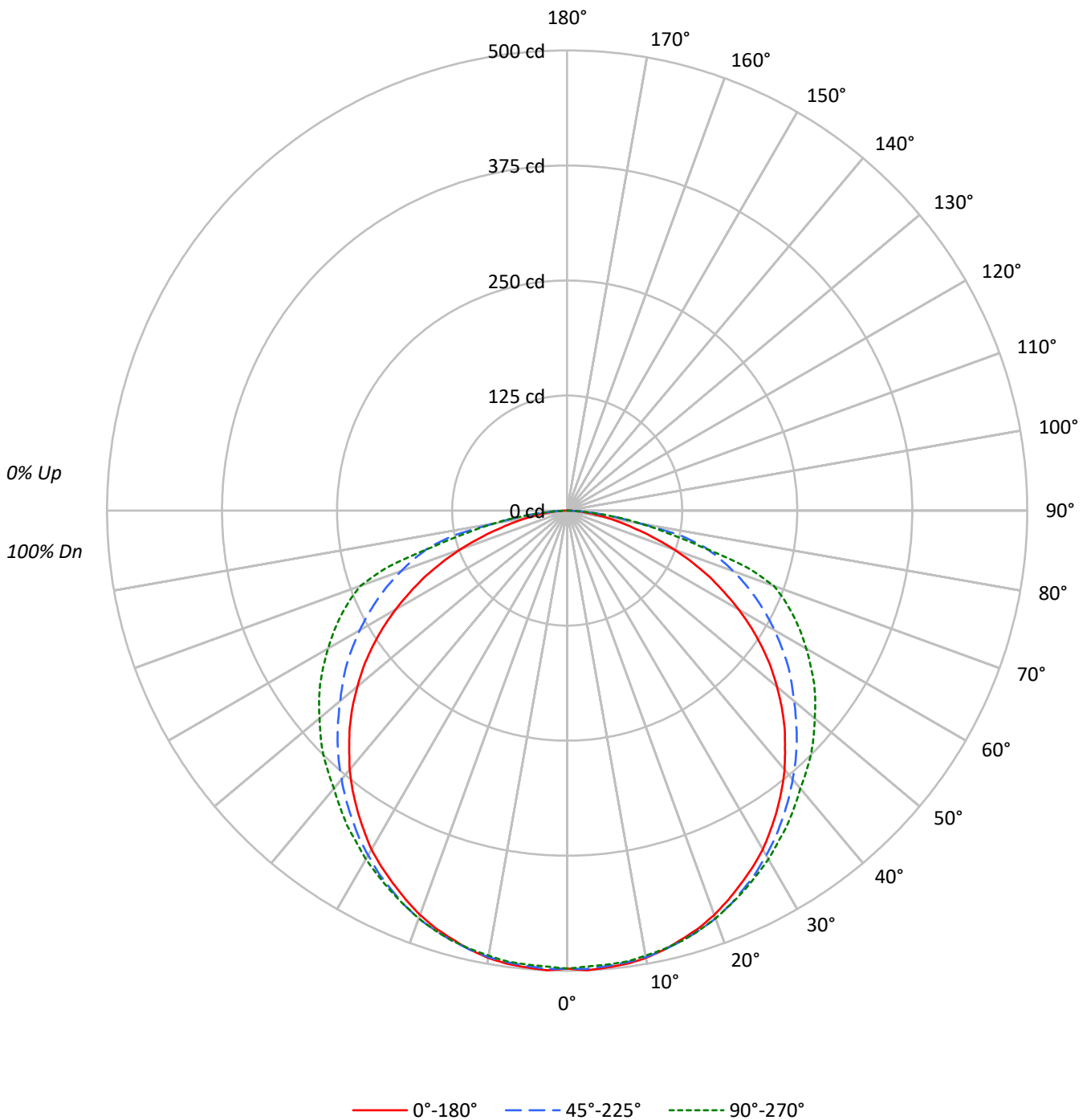
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	670	670	670
5°	673	671	669
10°	674	673	671
15°	672	674	674
20°	669	675	675
25°	664	674	676
30°	661	672	680
35°	653	670	685
40°	645	670	693
45°	636	672	713
50°	623	674	735
55°	606	687	768
60°	580	700	807
65°	543	722	865
70°	486	755	940
75°	401	807	778
80°	328	624	630
85°	264	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	3.0
10°-20°	136.4	8.7
20°-30°	208.4	13.2
30°-40°	254.9	16.2
40°-50°	272.7	17.3
50°-60°	261.2	16.6
60°-70°	220.9	14.0
70°-80°	140.0	8.9
80°-90°	32.2	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°	392.0	24.9
0°-40°	646.9	41.1
0°-60°	1180.8	75.0
0°-90°	1574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	498	496	497	496	495	47
15°	482	481	484	484	484	136
25°	447	447	454	455	455	206
35°	398	400	408	414	417	249
45°	334	340	353	368	375	257
55°	258	267	293	317	328	231
65°	171	187	227	258	272	168
75°	77	109	155	154	150	84
85°	17	26	27	24	25	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.6	497.6	497.6	497.6	497.6
2.5°	500.0	497.6	498.4	497.6	495.9
5°	498.4	495.9	496.8	495.9	495.1
7.5°	496.8	494.3	495.1	494.3	494.3
10°	493.5	491.1	492.7	491.9	491.1
12.5°	488.6	487.0	488.6	487.8	487.8
15°	482.1	481.3	483.7	483.7	483.7
17.5°	475.6	474.8	478.1	478.1	478.1
20°	467.5	466.7	471.6	471.6	471.6
22.5°	457.7	456.9	463.4	463.4	463.4
25°	447.2	447.2	453.7	455.3	455.3
27.5°	436.6	436.6	443.9	446.4	446.4
30°	425.2	425.2	432.5	435.8	437.4
32.5°	411.4	413.0	421.1	425.2	426.8
35°	397.6	400.0	408.1	413.8	417.1
37.5°	382.9	385.4	395.1	401.6	405.7
40°	367.5	370.7	381.3	389.4	394.3
42.5°	350.4	355.3	367.5	378.1	384.6
45°	334.2	339.8	352.9	367.5	374.8
47.5°	316.3	322.8	337.4	356.1	363.4
50°	297.6	304.1	322.0	343.1	351.2
52.5°	278.9	286.2	307.3	330.1	339.8
55°	258.5	266.7	292.7	317.1	327.6
57.5°	237.4	247.2	276.4	302.4	313.8
60°	215.5	227.6	260.2	287.8	300.0
62.5°	192.7	207.3	243.9	273.2	286.2
65°	170.7	187.0	226.8	257.7	271.6
67.5°	147.2	167.5	209.8	243.1	256.1
70°	123.6	147.2	191.9	226.0	239.0
72.5°	100.0	128.5	174.0	204.9	204.9
75°	77.2	108.9	155.3	154.5	149.6
77.5°	58.5	91.1	127.6	108.9	109.8
80°	42.3	73.2	80.5	80.5	81.3
82.5°	28.5	56.1	52.0	51.2	52.8
85°	17.1	26.0	26.8	24.4	25.2
87.5°	8.1	8.9	7.3	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)