

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: P263317

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263317
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-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2067.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

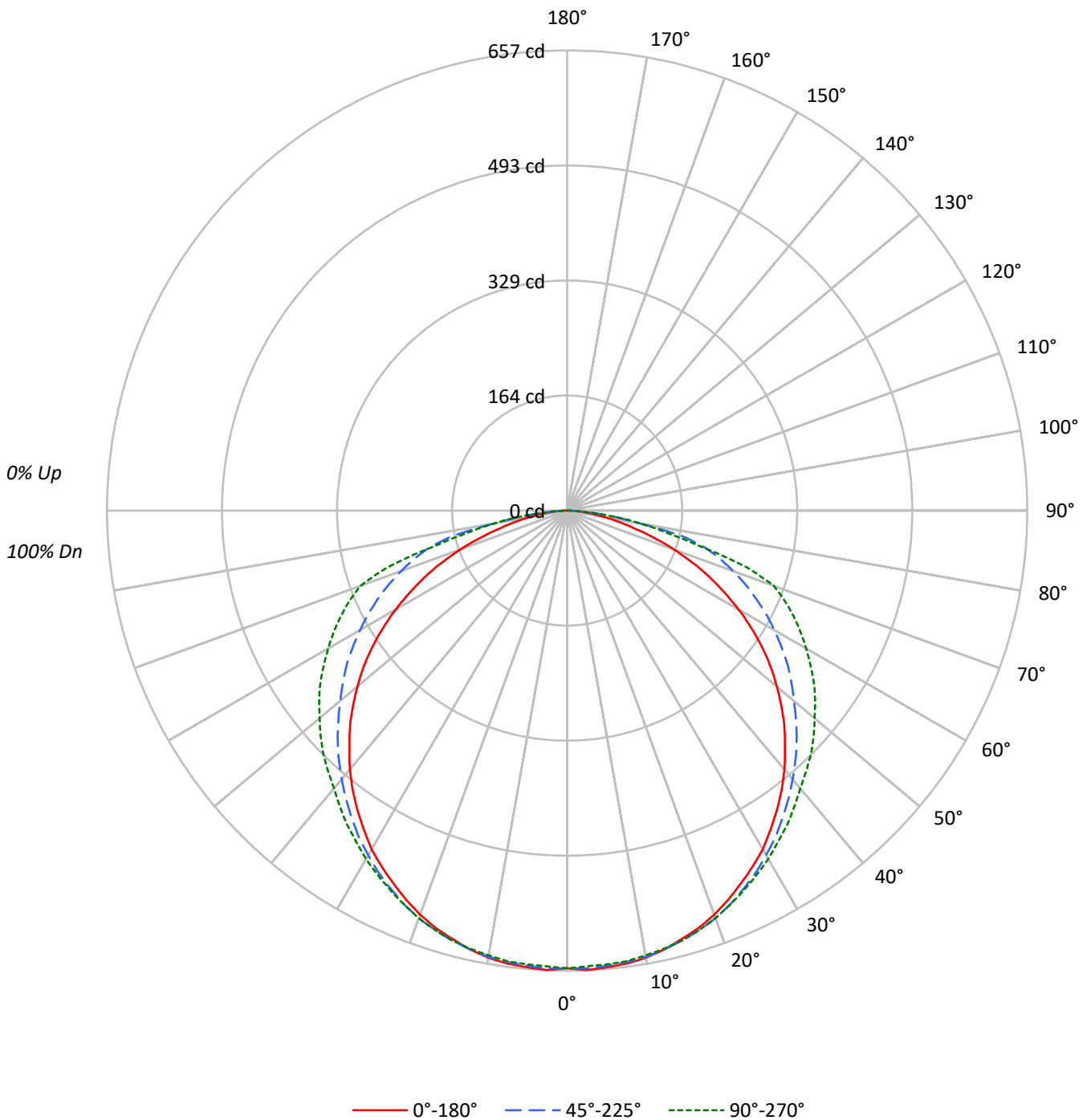
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	879	879	879
5°	884	881	878
10°	885	884	881
15°	882	885	885
20°	879	887	887
25°	872	885	888
30°	868	882	892
35°	858	880	900
40°	848	879	909
45°	835	882	937
50°	818	885	965
55°	796	902	1009
60°	761	920	1060
65°	714	948	1135
70°	638	991	1235
75°	527	1060	1022
80°	430	819	828
85°	346	543	511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.0
10°-20°	179.1	8.7
20°-30°	273.7	13.2
30°-40°	334.7	16.2
40°-50°	358.2	17.3
50°-60°	343.0	16.6
60°-70°	290.1	14.0
70°-80°	183.9	8.9
80°-90°	42.3	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°	514.8	24.9
0°-40°	849.6	41.1
0°-60°	1550.7	75.0
0°-90°	2067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	654	651	652	651	650	62
15°	633	632	635	635	635	179
25°	587	587	596	598	598	271
35°	522	525	536	543	548	327
45°	439	446	463	483	492	338
55°	340	350	384	416	430	303
65°	224	246	298	338	357	221
75°	101	143	204	203	196	110
85°	22	34	35	32	33	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.4	653.4	653.4	653.4	653.4
2.5°	656.6	653.4	654.5	653.4	651.3
5°	654.5	651.3	652.3	651.3	650.2
7.5°	652.3	649.1	650.2	649.1	649.1
10°	648.1	644.9	647.0	645.9	644.9
12.5°	641.7	639.5	641.7	640.6	640.6
15°	633.1	632.1	635.3	635.3	635.3
17.5°	624.6	623.5	627.8	627.8	627.8
20°	613.9	612.8	619.3	619.3	619.3
22.5°	601.1	600.0	608.6	608.6	608.6
25°	587.2	587.2	595.8	597.9	597.9
27.5°	573.3	573.3	583.0	586.2	586.2
30°	558.4	558.4	568.0	572.3	574.4
32.5°	540.2	542.4	553.1	558.4	560.5
35°	522.1	525.3	536.0	543.4	547.7
37.5°	502.9	506.1	518.9	527.4	532.8
40°	482.6	486.9	500.7	511.4	517.8
42.5°	460.2	466.6	482.6	496.5	505.0
45°	438.8	446.3	463.4	482.6	492.2
47.5°	415.3	423.9	443.1	467.6	477.3
50°	390.8	399.3	422.8	450.6	461.2
52.5°	366.2	375.8	403.6	433.5	446.3
55°	339.5	350.2	384.4	416.4	430.3
57.5°	311.8	324.6	363.0	397.2	412.1
60°	282.9	298.9	341.7	378.0	394.0
62.5°	253.0	272.3	320.3	358.7	375.8
65°	224.2	245.6	297.9	338.5	356.6
67.5°	193.2	219.9	275.5	319.2	336.3
70°	162.3	193.2	252.0	296.8	313.9
72.5°	131.3	168.7	228.5	269.1	269.1
75°	101.4	143.1	203.9	202.9	196.5
77.5°	76.9	119.6	167.6	143.1	144.1
80°	55.5	96.1	105.7	105.7	106.8
82.5°	37.4	73.7	68.3	67.3	69.4
85°	22.4	34.2	35.2	32.0	33.1
87.5°	10.7	11.7	9.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)