

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: P263318

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263318
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

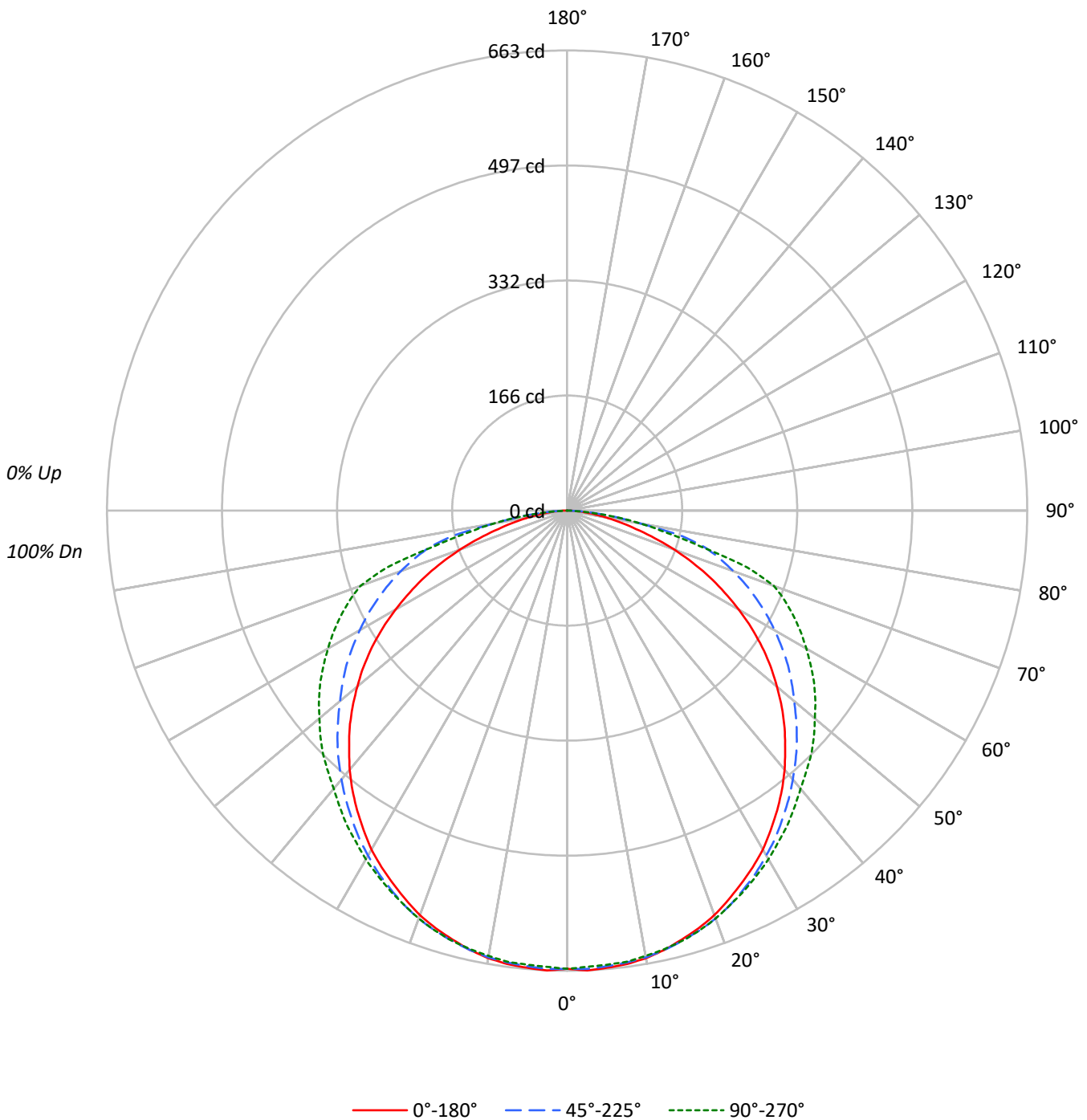
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	888	888	888
5°	893	890	887
10°	894	893	890
15°	891	894	894
20°	888	896	896
25°	881	893	897
30°	876	891	901
35°	866	889	909
40°	856	888	919
45°	844	891	946
50°	826	894	975
55°	805	911	1019
60°	769	929	1071
65°	721	958	1147
70°	645	1001	1247
75°	533	1071	1031
80°	435	828	836
85°	349	550	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.0
10°-20°	180.9	8.7
20°-30°	276.5	13.2
30°-40°	338.1	16.2
40°-50°	361.8	17.3
50°-60°	346.4	16.6
60°-70°	293.1	14.0
70°-80°	185.8	8.9
80°-90°	42.7	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°	520.1	24.9
0°-40°	858.2	41.1
0°-60°	1566.4	75.0
0°-90°	2088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	661	658	659	658	657	63
15°	640	638	642	642	642	181
25°	593	593	602	604	604	274
35°	527	531	541	549	553	330
45°	443	451	468	488	497	341
55°	343	354	388	421	435	306
65°	226	248	301	342	360	223
75°	102	144	206	205	198	111
85°	23	34	36	32	33	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.1	660.1	660.1	660.1	660.1
2.5°	663.3	660.1	661.1	660.1	657.9
5°	661.1	657.9	659.0	657.9	656.8
7.5°	659.0	655.7	656.8	655.7	655.7
10°	654.7	651.4	653.6	652.5	651.4
12.5°	648.2	646.0	648.2	647.1	647.1
15°	639.6	638.5	641.7	641.7	641.7
17.5°	630.9	629.9	634.2	634.2	634.2
20°	620.2	619.1	625.5	625.5	625.5
22.5°	607.2	606.1	614.8	614.8	614.8
25°	593.2	593.2	601.8	604.0	604.0
27.5°	579.2	579.2	588.9	592.1	592.1
30°	564.1	564.1	573.8	578.1	580.2
32.5°	545.7	547.9	558.7	564.1	566.2
35°	527.4	530.6	541.4	549.0	553.3
37.5°	508.0	511.2	524.2	532.8	538.2
40°	487.5	491.8	505.8	516.6	523.1
42.5°	464.8	471.3	487.5	501.5	510.1
45°	443.3	450.8	468.1	487.5	497.2
47.5°	419.5	428.2	447.6	472.4	482.1
50°	394.7	403.4	427.1	455.1	465.9
52.5°	369.9	379.6	407.7	437.9	450.8
55°	343.0	353.8	388.3	420.6	434.6
57.5°	314.9	327.9	366.7	401.2	416.3
60°	285.8	302.0	345.1	381.8	398.0
62.5°	255.6	275.0	323.6	362.4	379.6
65°	226.5	248.1	300.9	341.9	360.2
67.5°	195.2	222.2	278.3	322.5	339.7
70°	163.9	195.2	254.5	299.8	317.1
72.5°	132.7	170.4	230.8	271.8	271.8
75°	102.5	144.5	206.0	204.9	198.4
77.5°	77.7	120.8	169.3	144.5	145.6
80°	56.1	97.1	106.8	106.8	107.9
82.5°	37.7	74.4	69.0	67.9	70.1
85°	22.6	34.5	35.6	32.4	33.4
87.5°	10.8	11.9	9.7	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)