

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: P263873

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1979.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

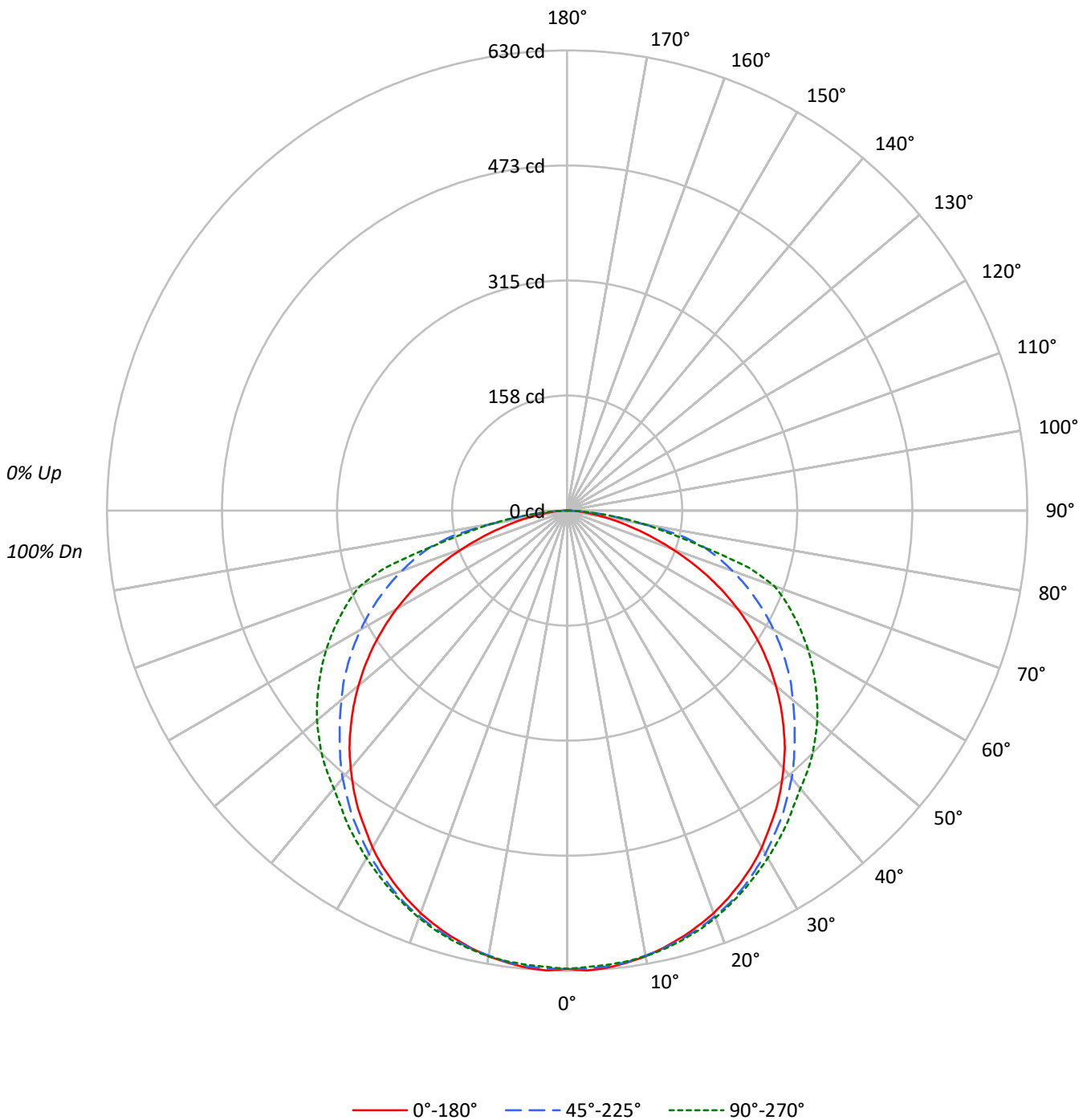
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	844	844	844
5°	849	846	843
10°	847	845	847
15°	843	845	848
20°	840	847	850
25°	834	846	850
30°	828	843	854
35°	819	842	861
40°	809	840	873
45°	797	838	903
50°	781	844	936
55°	759	859	974
60°	726	878	1025
65°	676	906	1092
70°	598	947	1188
75°	501	1013	998
80°	400	800	831
85°	316	542	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.0
10°-20°	171.2	8.7
20°-30°	261.6	13.2
30°-40°	319.8	16.2
40°-50°	342.3	17.3
50°-60°	328.3	16.6
60°-70°	277.2	14.0
70°-80°	177.2	9.0
80°-90°	41.9	2.1
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°	492.3	24.9
0°-40°	812.1	41.0
0°-60°	1482.7	74.9
0°-90°	1979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	628	624	626	625	624	60
15°	605	603	607	609	609	171
25°	562	561	570	572	573	259
35°	499	503	512	519	524	312
45°	419	426	440	461	474	323
55°	323	334	366	399	415	289
65°	212	233	284	324	343	209
75°	96	137	195	199	192	104
85°	20	34	35	34	32	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.4	627.4	627.4	627.4	627.4
2.5°	630.3	626.4	627.4	627.4	625.4
5°	628.3	624.4	626.4	625.4	624.4
7.5°	624.4	621.5	623.5	623.5	622.5
10°	619.6	616.6	618.6	619.6	619.6
12.5°	612.7	610.8	613.7	613.7	614.7
15°	605.0	603.0	606.9	608.9	608.9
17.5°	596.2	595.2	600.1	601.1	602.0
20°	586.4	585.5	591.3	591.3	593.3
22.5°	574.8	573.8	581.6	581.6	583.5
25°	562.1	561.1	569.9	571.8	572.8
27.5°	548.5	547.5	556.2	559.2	561.1
30°	532.9	532.9	542.6	546.5	549.4
32.5°	515.3	518.3	527.0	532.9	536.8
35°	498.8	502.7	512.4	519.2	524.1
37.5°	480.3	484.2	494.9	503.6	509.5
40°	460.8	465.6	478.3	488.1	496.8
42.5°	441.3	446.2	459.8	474.4	486.1
45°	418.9	425.7	440.3	460.8	474.4
47.5°	396.5	403.3	421.8	447.1	460.8
50°	373.1	380.9	403.3	432.5	447.1
52.5°	348.7	357.5	385.8	416.9	431.6
55°	323.4	334.1	366.3	399.4	415.0
57.5°	297.1	308.8	346.8	381.9	398.4
60°	269.8	284.5	326.3	363.4	380.9
62.5°	241.6	259.1	305.9	343.9	362.4
65°	212.4	232.8	284.5	324.4	342.9
67.5°	182.2	209.4	263.0	304.9	323.4
70°	152.0	184.1	240.6	283.5	302.0
72.5°	123.7	160.7	218.2	258.2	262.0
75°	96.4	137.4	194.8	198.7	191.9
77.5°	72.1	114.0	160.7	143.2	142.2
80°	51.6	91.6	103.3	106.2	107.2
82.5°	34.1	69.2	67.2	69.2	68.2
85°	20.5	34.1	35.1	34.1	32.1
87.5°	9.7	12.7	9.7	8.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)