

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: P263363

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263363
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

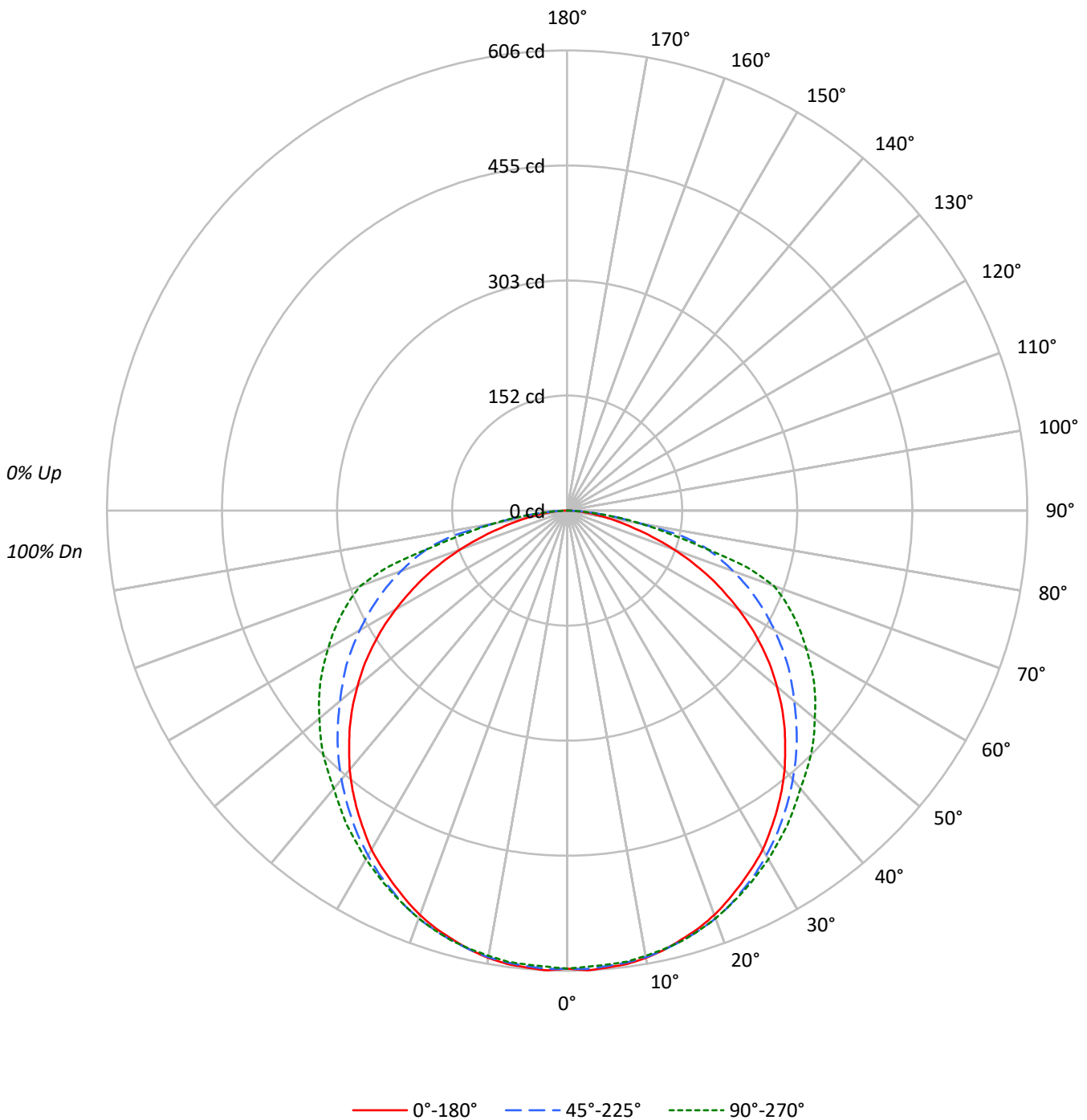
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263363

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P263363

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-5500K

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°	812	812	812
5°	816	813	811
10°	817	816	813
15°	814	817	817
20°	811	818	818
25°	805	816	819
30°	801	815	824
35°	792	813	830
40°	782	812	840
45°	771	814	864
50°	755	817	891
55°	735	832	932
60°	703	849	979
65°	659	876	1048
70°	589	915	1140
75°	487	978	943
80°	397	756	764
85°	320	502	472



TEST NUMBER: P263363

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.0
10°-20°	165.3	8.7
20°-30°	252.6	13.2
30°-40°	309.0	16.2
40°-50°	330.6	17.3
50°-60°	316.6	16.6
60°-70°	267.8	14.0
70°-80°	169.8	8.9
80°-90°	39.1	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°	475.2	24.9
0°-40°	784.2	41.1
0°-60°	1431.4	75.0
0°-90°	1908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	604	601	602	601	600	57
15°	584	583	586	586	586	165
25°	542	542	550	552	552	250
35°	482	485	495	502	506	302
45°	405	412	428	446	454	312
55°	313	323	355	384	397	280
65°	207	227	275	312	329	204
75°	94	132	188	187	181	102
85°	21	32	32	30	31	25
90°	0	0	0	0	0	



TEST NUMBER: P263363

CATALOG NUMBER: 24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.2	603.2	603.2	603.2	603.2
2.5°	606.1	603.2	604.1	603.2	601.2
5°	604.1	601.2	602.2	601.2	600.2
7.5°	602.2	599.2	600.2	599.2	599.2
10°	598.2	595.3	597.2	596.3	595.3
12.5°	592.3	590.3	592.3	591.3	591.3
15°	584.4	583.4	586.4	586.4	586.4
17.5°	576.5	575.6	579.5	579.5	579.5
20°	566.7	565.7	571.6	571.6	571.6
22.5°	554.9	553.9	561.8	561.8	561.8
25°	542.1	542.1	549.9	551.9	551.9
27.5°	529.2	529.2	538.1	541.1	541.1
30°	515.4	515.4	524.3	528.3	530.2
32.5°	498.7	500.7	510.5	515.4	517.4
35°	481.9	484.9	494.7	501.6	505.6
37.5°	464.2	467.1	479.0	486.9	491.8
40°	445.5	449.4	462.2	472.1	478.0
42.5°	424.8	430.7	445.5	458.3	466.2
45°	405.1	412.0	427.7	445.5	454.3
47.5°	383.4	391.3	409.0	431.7	440.5
50°	360.7	368.6	390.3	415.9	425.8
52.5°	338.0	346.9	372.5	400.1	412.0
55°	313.4	323.3	354.8	384.4	397.2
57.5°	287.8	299.6	335.1	366.6	380.4
60°	261.2	276.0	315.4	348.9	363.7
62.5°	233.6	251.3	295.7	331.1	346.9
65°	207.0	226.7	275.0	312.4	329.2
67.5°	178.4	203.0	254.3	294.7	310.4
70°	149.8	178.4	232.6	274.0	289.8
72.5°	121.2	155.7	210.9	248.4	248.4
75°	93.6	132.1	188.2	187.3	181.3
77.5°	71.0	110.4	154.7	132.1	133.0
80°	51.2	88.7	97.6	97.6	98.6
82.5°	34.5	68.0	63.1	62.1	64.1
85°	20.7	31.5	32.5	29.6	30.6
87.5°	9.9	10.8	8.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)