

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: P263783

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263783
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-LD5-30-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2003.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

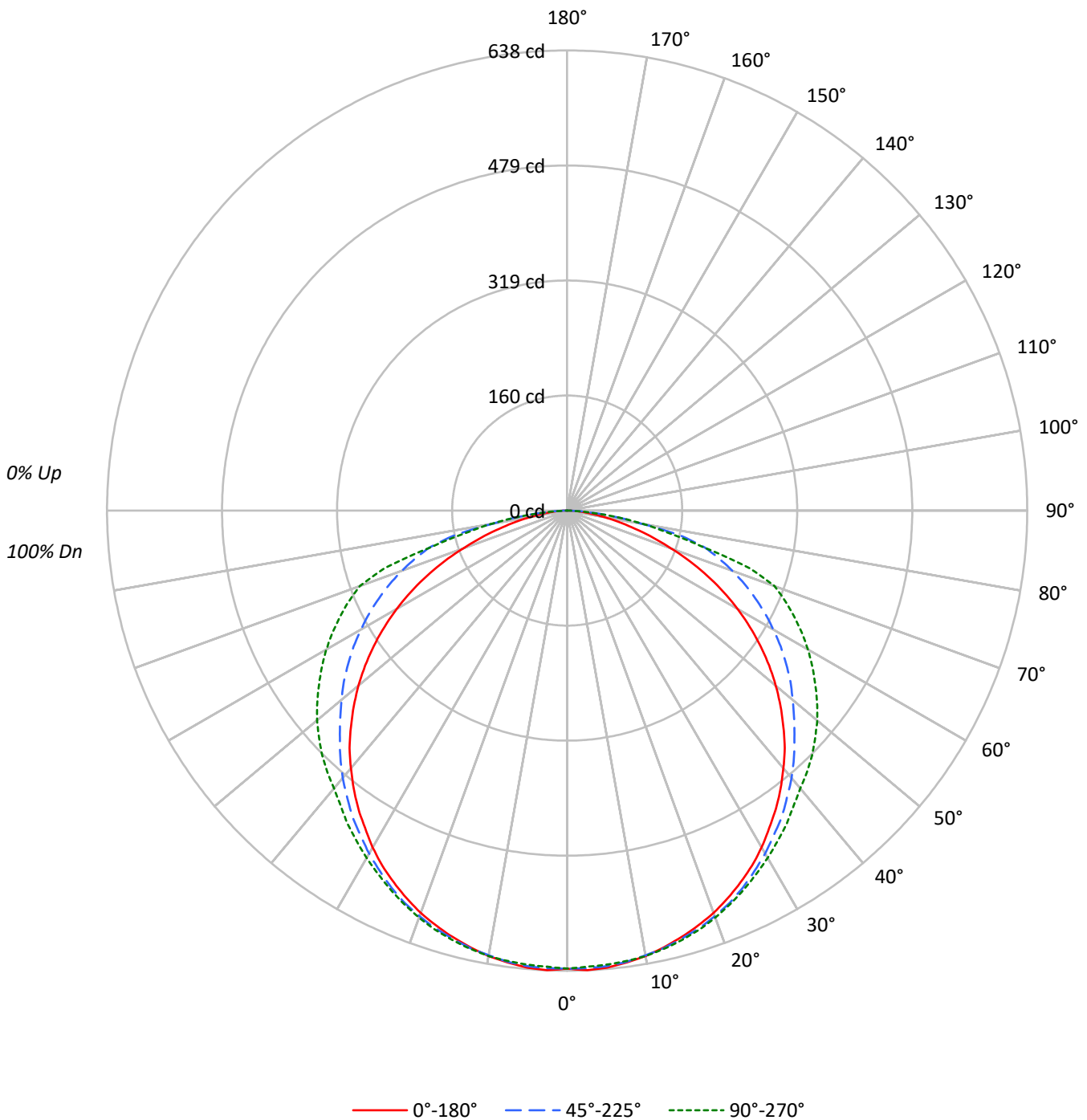
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263783

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

Luminous Intensity Polar Plot





TEST NUMBER: P263783

CATALOG NUMBER: 24CZ-LD5-30-RDP-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	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°	854	854	854
5°	859	856	854
10°	857	855	857
15°	853	856	858
20°	850	857	860
25°	845	856	861
30°	838	853	864
35°	829	852	871
40°	819	850	883
45°	807	848	914
50°	790	854	947
55°	768	870	985
60°	735	889	1037
65°	684	917	1105
70°	605	958	1203
75°	507	1025	1010
80°	405	810	841
85°	320	548	502



TEST NUMBER: P263783

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	173.3	8.7
20°-30°	264.7	13.2
30°-40°	323.7	16.2
40°-50°	346.5	17.3
50°-60°	332.3	16.6
60°-70°	280.6	14.0
70°-80°	179.3	9.0
80°-90°	42.4	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°	498.3	24.9
0°-40°	821.9	41.0
0°-60°	1500.7	74.9
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	636	632	634	633	632	60
15°	612	610	614	616	616	173
25°	569	568	577	579	580	262
35°	505	509	519	526	530	316
45°	424	431	446	466	480	327
55°	327	338	371	404	420	292
65°	215	236	288	328	347	212
75°	98	139	197	201	194	105
85°	21	34	36	34	32	25
90°	0	0	0	0	0	



TEST NUMBER: P263783

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.0	635.0	635.0	635.0	635.0
2.5°	637.9	634.0	635.0	635.0	633.0
5°	636.0	632.0	634.0	633.0	632.0
7.5°	632.0	629.1	631.0	631.0	630.0
10°	627.1	624.1	626.1	627.1	627.1
12.5°	620.2	618.2	621.2	621.2	622.2
15°	612.3	610.3	614.3	616.2	616.2
17.5°	603.4	602.4	607.4	608.3	609.3
20°	593.6	592.6	598.5	598.5	600.5
22.5°	581.7	580.7	588.6	588.6	590.6
25°	568.9	567.9	576.8	578.8	579.8
27.5°	555.1	554.1	563.0	565.9	567.9
30°	539.3	539.3	549.2	553.1	556.1
32.5°	521.6	524.5	533.4	539.3	543.3
35°	504.8	508.8	518.6	525.5	530.5
37.5°	486.1	490.0	500.9	509.7	515.7
40°	466.4	471.3	484.1	494.0	502.8
42.5°	446.6	451.6	465.4	480.2	492.0
45°	424.0	430.9	445.7	466.4	480.2
47.5°	401.3	408.2	426.9	452.6	466.4
50°	377.6	385.5	408.2	437.8	452.6
52.5°	353.0	361.9	390.4	422.0	436.8
55°	327.3	338.2	370.7	404.2	420.0
57.5°	300.7	312.6	351.0	386.5	403.3
60°	273.1	287.9	330.3	367.8	385.5
62.5°	244.5	262.3	309.6	348.0	366.8
65°	214.9	235.6	287.9	328.3	347.1
67.5°	184.4	212.0	266.2	308.6	327.3
70°	153.8	186.3	243.5	286.9	305.7
72.5°	125.2	162.7	220.9	261.3	265.2
75°	97.6	139.0	197.2	201.1	194.2
77.5°	73.0	115.4	162.7	144.9	144.0
80°	52.3	92.7	104.5	107.5	108.5
82.5°	34.5	70.0	68.0	70.0	69.0
85°	20.7	34.5	35.5	34.5	32.5
87.5°	9.9	12.8	9.9	8.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)