

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: P263788

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263788
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-LD5-35-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

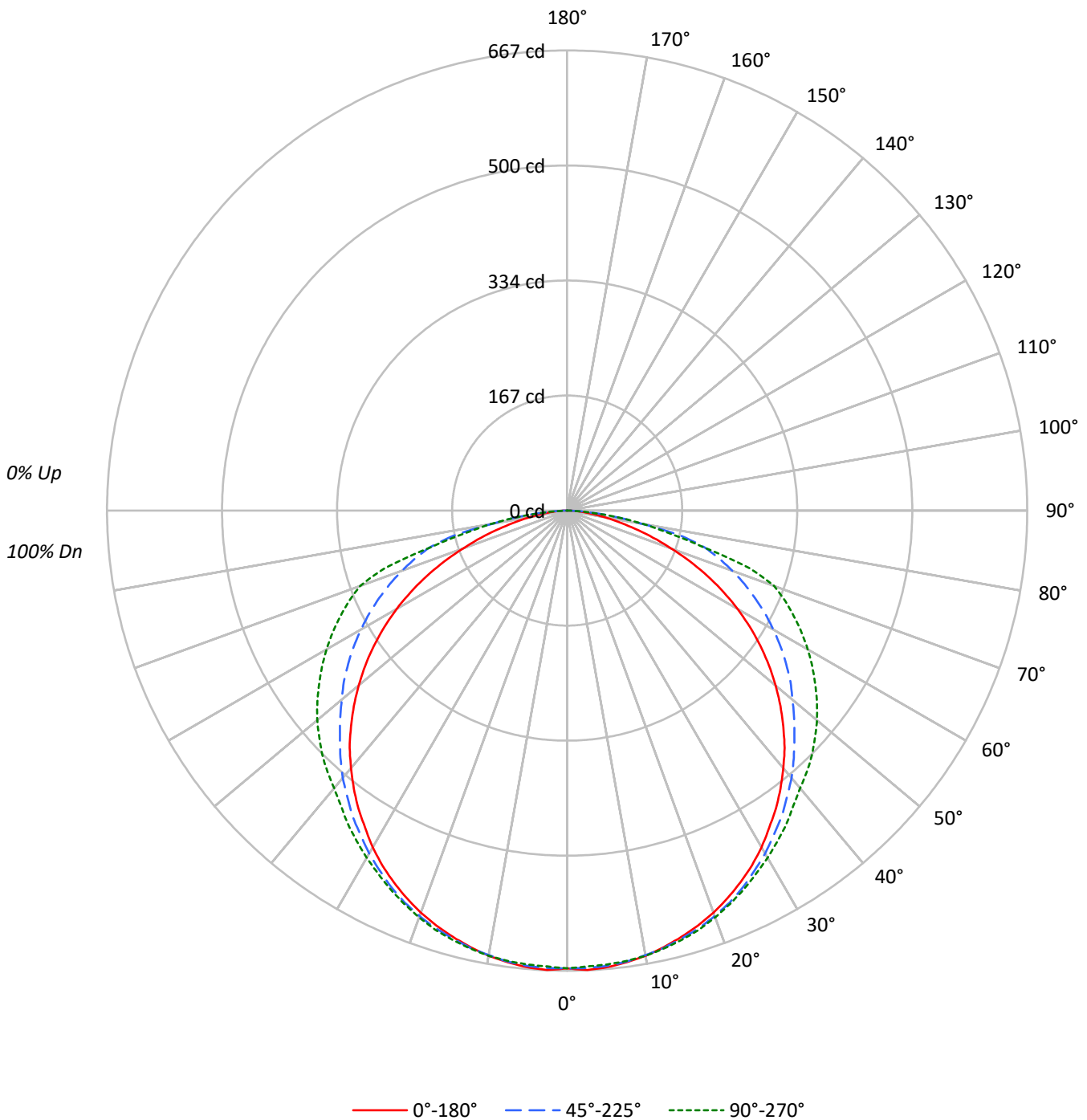
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263788

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263788

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K

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°	893	893	893
5°	897	895	892
10°	895	894	895
15°	891	894	897
20°	888	895	898
25°	883	895	899
30°	876	892	903
35°	866	890	910
40°	856	889	923
45°	843	886	955
50°	826	893	990
55°	802	909	1030
60°	768	929	1084
65°	715	958	1155
70°	632	1001	1257
75°	530	1071	1055
80°	423	846	878
85°	333	573	525



TEST NUMBER: P263788

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.0
10°-20°	181.1	8.7
20°-30°	276.6	13.2
30°-40°	338.2	16.2
40°-50°	362.0	17.3
50°-60°	347.2	16.6
60°-70°	293.2	14.0
70°-80°	187.4	9.0
80°-90°	44.3	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°	520.7	24.9
0°-40°	858.9	41.0
0°-60°	1568.1	74.9
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	664	660	662	661	660	63
15°	640	638	642	644	644	181
25°	594	593	603	605	606	274
35°	528	532	542	549	554	330
45°	443	450	466	487	502	342
55°	342	353	387	422	439	305
65°	225	246	301	343	363	222
75°	102	145	206	210	203	110
85°	22	36	37	36	34	26
90°	0	0	0	0	0	



TEST NUMBER: P263788

CATALOG NUMBER: 24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.5	663.5	663.5	663.5	663.5
2.5°	666.6	662.5	663.5	663.5	661.4
5°	664.5	660.4	662.5	661.4	660.4
7.5°	660.4	657.3	659.4	659.4	658.3
10°	655.3	652.2	654.2	655.3	655.3
12.5°	648.0	646.0	649.1	649.1	650.1
15°	639.8	637.7	641.9	643.9	643.9
17.5°	630.5	629.5	634.7	635.7	636.7
20°	620.2	619.2	625.4	625.4	627.4
22.5°	607.9	606.8	615.1	615.1	617.1
25°	594.5	593.4	602.7	604.8	605.8
27.5°	580.0	579.0	588.3	591.4	593.4
30°	563.6	563.6	573.9	578.0	581.1
32.5°	545.0	548.1	557.4	563.6	567.7
35°	527.5	531.6	541.9	549.1	554.3
37.5°	507.9	512.0	523.4	532.7	538.8
40°	487.3	492.5	505.9	516.2	525.4
42.5°	466.7	471.9	486.3	501.7	514.1
45°	443.0	450.2	465.7	487.3	501.7
47.5°	419.3	426.5	446.1	472.9	487.3
50°	394.6	402.8	426.5	457.4	472.9
52.5°	368.8	378.1	408.0	441.0	456.4
55°	342.1	353.4	387.4	422.4	438.9
57.5°	314.2	326.6	366.8	403.9	421.4
60°	285.4	300.8	345.1	384.3	402.8
62.5°	255.5	274.1	323.5	363.7	383.3
65°	224.6	246.2	300.8	343.1	362.7
67.5°	192.7	221.5	278.2	322.5	342.1
70°	160.7	194.7	254.5	299.8	319.4
72.5°	130.8	170.0	230.8	273.0	277.1
75°	102.0	145.3	206.1	210.2	203.0
77.5°	76.2	120.5	170.0	151.5	150.4
80°	54.6	96.8	109.2	112.3	113.3
82.5°	36.1	73.1	71.1	73.1	72.1
85°	21.6	36.1	37.1	36.1	34.0
87.5°	10.3	13.4	10.3	9.3	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)