

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: P230505

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230505
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-LD5-35SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2001.9 lumens
Efficiency: N/A
Efficacy: 70.1 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

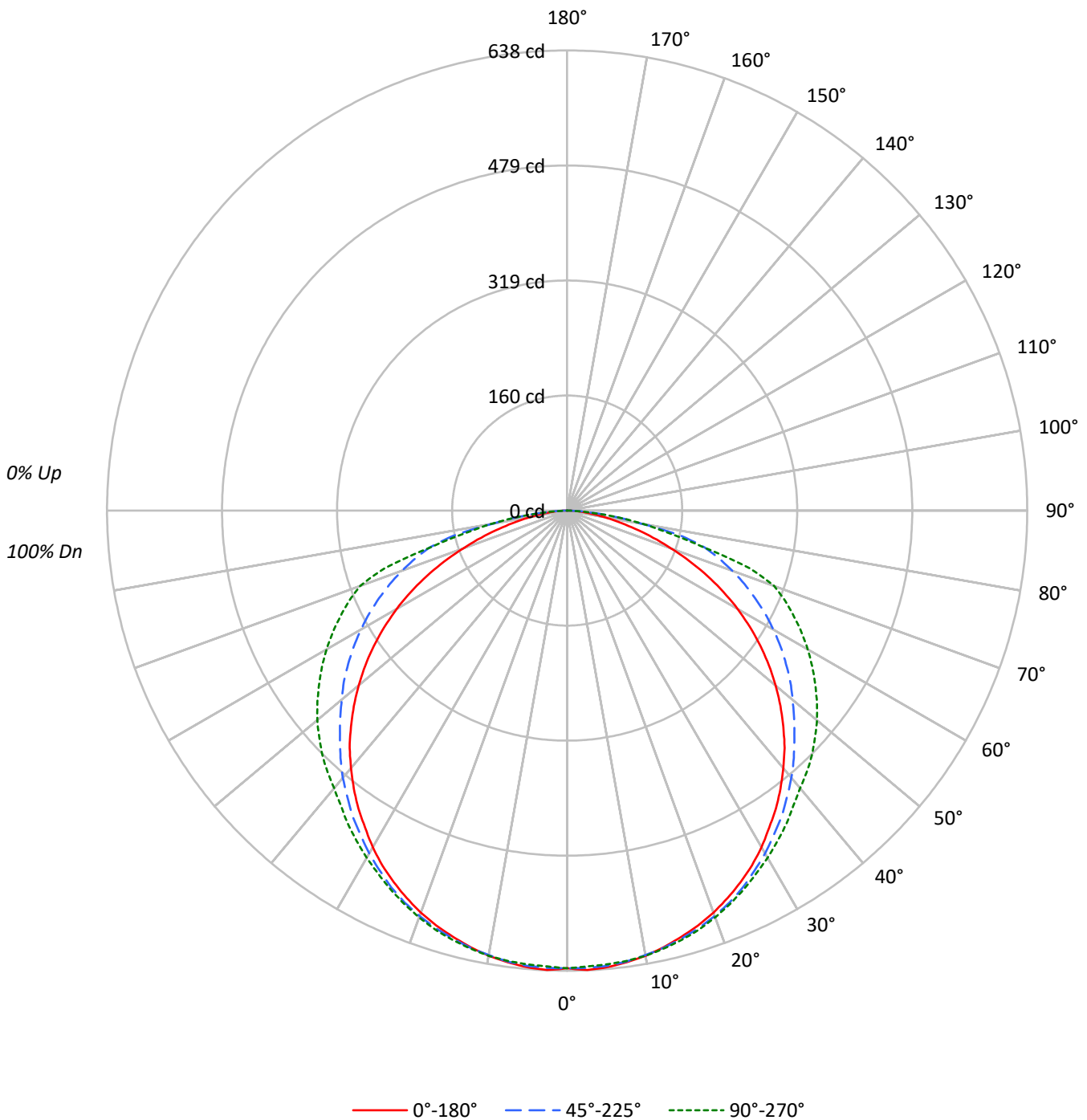
Input Watts (W): 28.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P230505

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P230505

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L935-CD1-U

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	61	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°	858	856	853
10°	856	855	856
15°	852	855	858
20°	849	856	859
25°	844	856	860
30°	837	853	864
35°	829	851	871
40°	819	850	883
45°	806	848	913
50°	790	854	947
55°	768	869	985
60°	735	888	1037
65°	684	916	1104
70°	605	958	1202
75°	507	1025	1009
80°	404	810	840
85°	320	548	502



TEST NUMBER: P230505

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	173.2	8.7
20°-30°	264.6	13.2
30°-40°	323.5	16.2
40°-50°	346.2	17.3
50°-60°	332.1	16.6
60°-70°	280.4	14.0
70°-80°	179.2	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°	498.0	24.9
0°-40°	821.5	41.0
0°-60°	1499.8	74.9
0°-90°	2001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.9	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	576	578	579	262
35°	504	508	518	525	530	315
45°	424	431	445	466	480	327
55°	327	338	370	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: P230505

CATALOG NUMBER: 24CZ-LD5-35SE-RDP-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.6	634.6	634.6	634.6	634.6
2.5°	637.6	633.6	634.6	634.6	632.6
5°	635.6	631.6	633.6	632.6	631.6
7.5°	631.6	628.7	630.7	630.7	629.7
10°	626.7	623.8	625.7	626.7	626.7
12.5°	619.8	617.8	620.8	620.8	621.8
15°	611.9	610.0	613.9	615.9	615.9
17.5°	603.1	602.1	607.0	608.0	609.0
20°	593.2	592.2	598.1	598.1	600.1
22.5°	581.4	580.4	588.3	588.3	590.3
25°	568.6	567.6	576.5	578.4	579.4
27.5°	554.8	553.8	562.7	565.6	567.6
30°	539.0	539.0	548.9	552.8	555.8
32.5°	521.3	524.2	533.1	539.0	543.0
35°	504.5	508.5	518.3	525.2	530.1
37.5°	485.8	489.7	500.6	509.5	515.4
40°	466.1	471.0	483.8	493.7	502.6
42.5°	446.4	451.3	465.1	479.9	491.7
45°	423.7	430.6	445.4	466.1	479.9
47.5°	401.1	408.0	426.7	452.3	466.1
50°	377.4	385.3	408.0	437.5	452.3
52.5°	352.8	361.6	390.2	421.8	436.5
55°	327.2	338.0	370.5	404.0	419.8
57.5°	300.5	312.4	350.8	386.3	403.0
60°	273.0	287.7	330.1	367.6	385.3
62.5°	244.4	262.1	309.4	347.8	366.6
65°	214.8	235.5	287.7	328.1	346.9
67.5°	184.3	211.9	266.1	308.4	327.2
70°	153.7	186.2	243.4	286.8	305.5
72.5°	125.1	162.6	220.7	261.1	265.1
75°	97.6	138.9	197.1	201.0	194.1
77.5°	72.9	115.3	162.6	144.9	143.9
80°	52.2	92.6	104.5	107.4	108.4
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)