

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: P230465

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230465
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-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.8 lumens
Efficiency: N/A
Efficacy: 78.2 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

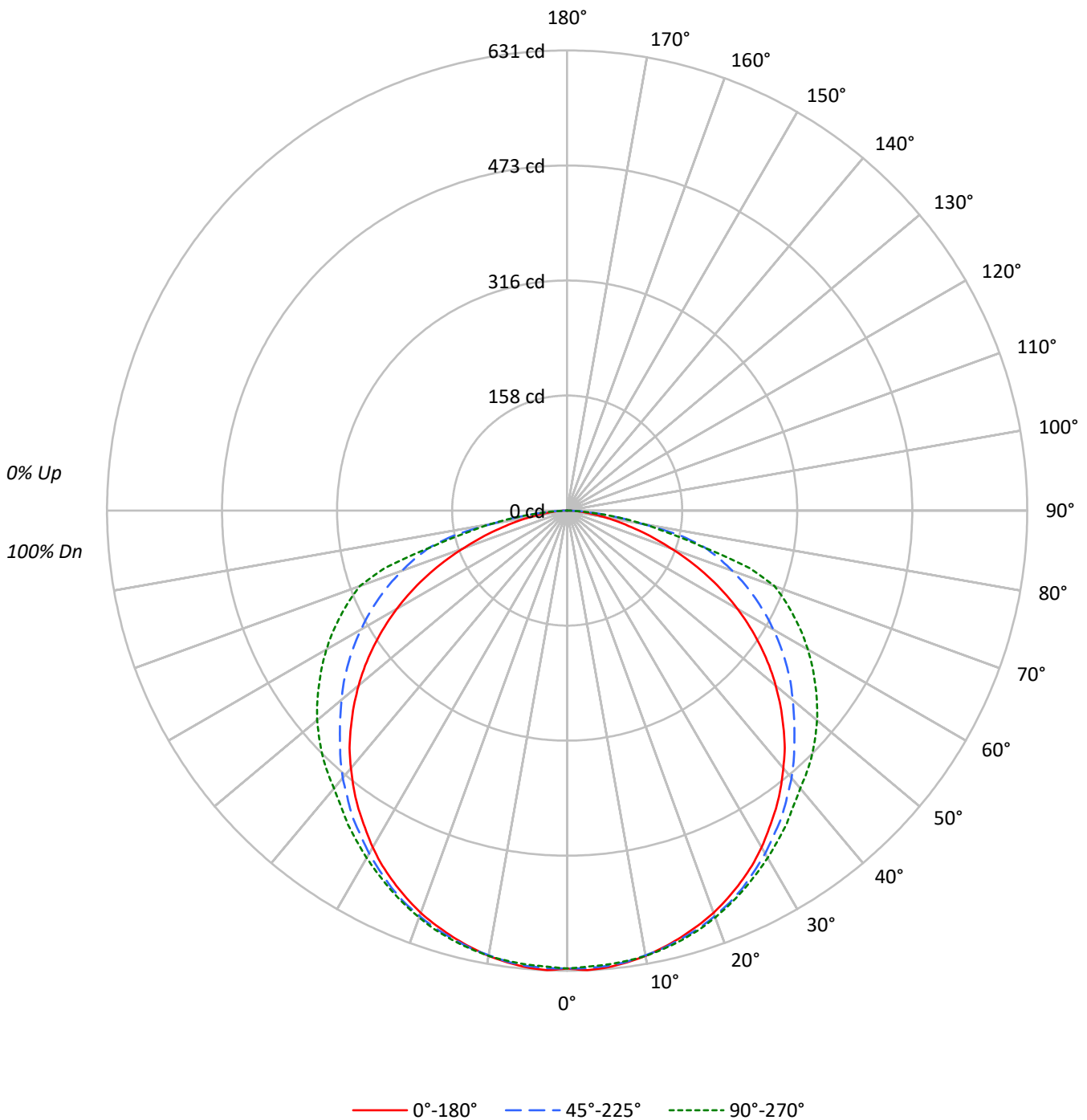
Input Watts (W): 25.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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	55	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°	845	845	845
5°	849	847	844
10°	847	846	847
15°	843	846	849
20°	840	847	850
25°	835	847	851
30°	829	844	854
35°	820	842	862
40°	810	841	873
45°	798	839	903
50°	782	845	937
55°	759	860	974
60°	727	879	1026
65°	677	906	1093
70°	598	947	1189
75°	502	1014	999
80°	401	801	831
85°	316	542	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.0
10°-20°	171.4	8.7
20°-30°	261.8	13.2
30°-40°	320.1	16.2
40°-50°	342.6	17.3
50°-60°	328.6	16.6
60°-70°	277.5	14.0
70°-80°	177.3	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°	492.7	24.9
0°-40°	812.8	41.0
0°-60°	1484.0	74.9
0°-90°	1980.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	629	625	627	626	625	60
15°	606	604	607	609	609	171
25°	563	562	570	572	573	259
35°	499	503	513	520	525	312
45°	419	426	441	461	475	323
55°	324	334	367	400	415	289
65°	213	233	285	325	343	210
75°	96	138	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°	627.9	627.9	627.9	627.9	627.9
2.5°	630.8	626.9	627.9	627.9	626.0
5°	628.9	625.0	626.9	626.0	625.0
7.5°	625.0	622.1	624.0	624.0	623.0
10°	620.1	617.2	619.1	620.1	620.1
12.5°	613.3	611.3	614.3	614.3	615.2
15°	605.5	603.5	607.4	609.4	609.4
17.5°	596.7	595.7	600.6	601.6	602.6
20°	587.0	586.0	591.8	591.8	593.8
22.5°	575.3	574.3	582.1	582.1	584.0
25°	562.6	561.6	570.4	572.3	573.3
27.5°	548.9	548.0	556.7	559.7	561.6
30°	533.3	533.3	543.1	547.0	549.9
32.5°	515.8	518.7	527.5	533.3	537.2
35°	499.2	503.1	512.9	519.7	524.6
37.5°	480.7	484.6	495.3	504.1	509.9
40°	461.2	466.1	478.7	488.5	497.3
42.5°	441.7	446.6	460.2	474.8	486.5
45°	419.3	426.1	440.7	461.2	474.8
47.5°	396.8	403.7	422.2	447.5	461.2
50°	373.4	381.2	403.7	432.9	447.5
52.5°	349.1	357.8	386.1	417.3	431.9
55°	323.7	334.4	366.6	399.8	415.4
57.5°	297.4	309.1	347.1	382.2	398.8
60°	270.1	284.7	326.6	363.7	381.2
62.5°	241.8	259.4	306.2	344.2	362.7
65°	212.6	233.0	284.7	324.7	343.2
67.5°	182.3	209.6	263.3	305.2	323.7
70°	152.1	184.3	240.8	283.7	302.3
72.5°	123.8	160.9	218.4	258.4	262.3
75°	96.5	137.5	195.0	198.9	192.1
77.5°	72.2	114.1	160.9	143.3	142.4
80°	51.7	91.7	103.4	106.3	107.3
82.5°	34.1	69.2	67.3	69.2	68.3
85°	20.5	34.1	35.1	34.1	32.2
87.5°	9.8	12.7	9.8	8.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)