

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: P230503

Luminaire Tested: **24CZ-LD5-30SE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230503
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-LD5-30SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

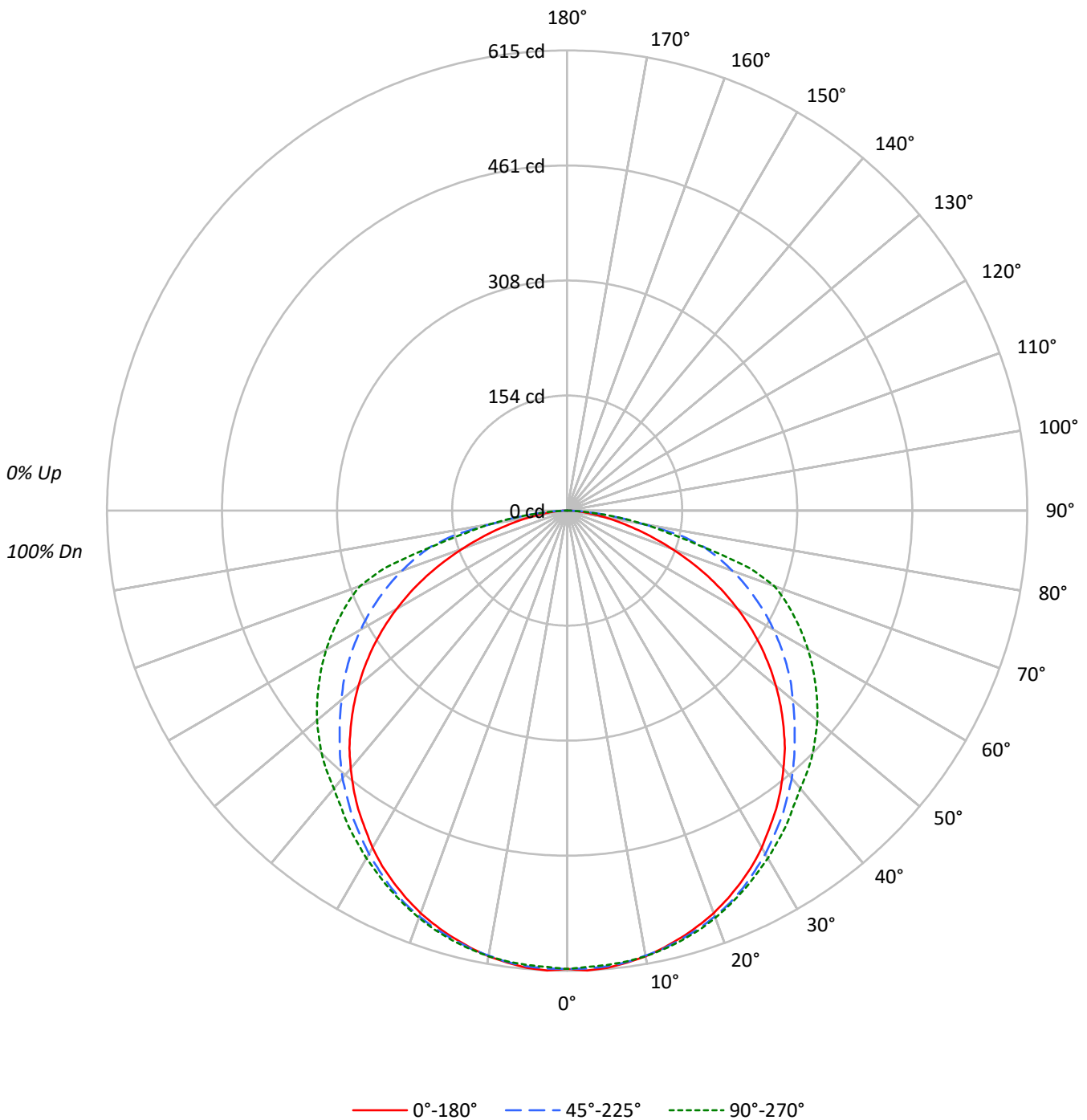
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	824	824	824
5°	828	826	823
10°	826	825	826
15°	823	825	828
20°	820	827	829
25°	815	826	830
30°	808	823	833
35°	800	822	840
40°	790	820	852
45°	778	818	881
50°	762	824	914
55°	741	839	950
60°	709	857	1001
65°	660	884	1066
70°	584	924	1160
75°	490	989	974
80°	391	781	810
85°	309	528	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.0
10°-20°	167.2	8.7
20°-30°	255.4	13.2
30°-40°	312.2	16.2
40°-50°	334.2	17.3
50°-60°	320.5	16.6
60°-70°	270.6	14.0
70°-80°	173.0	9.0
80°-90°	40.9	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°	480.6	24.9
0°-40°	792.8	41.0
0°-60°	1447.5	74.9
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	613	610	612	611	610	58
15°	591	589	592	594	594	167
25°	549	548	556	558	559	253
35°	487	491	500	507	512	304
45°	409	416	430	450	463	315
55°	316	326	358	390	405	282
65°	207	227	278	317	335	204
75°	94	134	190	194	187	101
85°	20	33	34	33	31	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.5	612.5	612.5	612.5	612.5
2.5°	615.3	611.5	612.5	612.5	610.6
5°	613.4	609.6	611.5	610.6	609.6
7.5°	609.6	606.8	608.7	608.7	607.7
10°	604.9	602.0	603.9	604.9	604.9
12.5°	598.2	596.3	599.2	599.2	600.1
15°	590.6	588.7	592.5	594.4	594.4
17.5°	582.0	581.1	585.8	586.8	587.7
20°	572.5	571.6	577.3	577.3	579.2
22.5°	561.1	560.2	567.8	567.8	569.7
25°	548.8	547.8	556.4	558.3	559.2
27.5°	535.4	534.5	543.0	545.9	547.8
30°	520.2	520.2	529.7	533.5	536.4
32.5°	503.1	506.0	514.5	520.2	524.0
35°	486.9	490.7	500.2	506.9	511.7
37.5°	468.9	472.7	483.1	491.7	497.4
40°	449.8	454.6	467.0	476.5	485.0
42.5°	430.8	435.6	448.9	463.2	474.6
45°	408.9	415.6	429.9	449.8	463.2
47.5°	387.1	393.7	411.8	436.5	449.8
50°	364.2	371.9	393.7	422.3	436.5
52.5°	340.5	349.0	376.6	407.0	421.3
55°	315.7	326.2	357.6	389.9	405.1
57.5°	290.1	301.5	338.6	372.8	389.0
60°	263.4	277.7	318.6	354.7	371.9
62.5°	235.9	253.0	298.6	335.7	353.8
65°	207.3	227.3	277.7	316.7	334.8
67.5°	177.8	204.5	256.8	297.7	315.7
70°	148.4	179.7	234.9	276.8	294.8
72.5°	120.8	156.9	213.0	252.0	255.8
75°	94.2	134.1	190.2	194.0	187.4
77.5°	70.4	111.3	156.9	139.8	138.9
80°	50.4	89.4	100.8	103.7	104.6
82.5°	33.3	67.5	65.6	67.5	66.6
85°	20.0	33.3	34.2	33.3	31.4
87.5°	9.5	12.4	9.5	8.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)