

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: P230460

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230460
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-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1641.7 lumens
Efficiency: N/A
Efficacy: 75.9 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

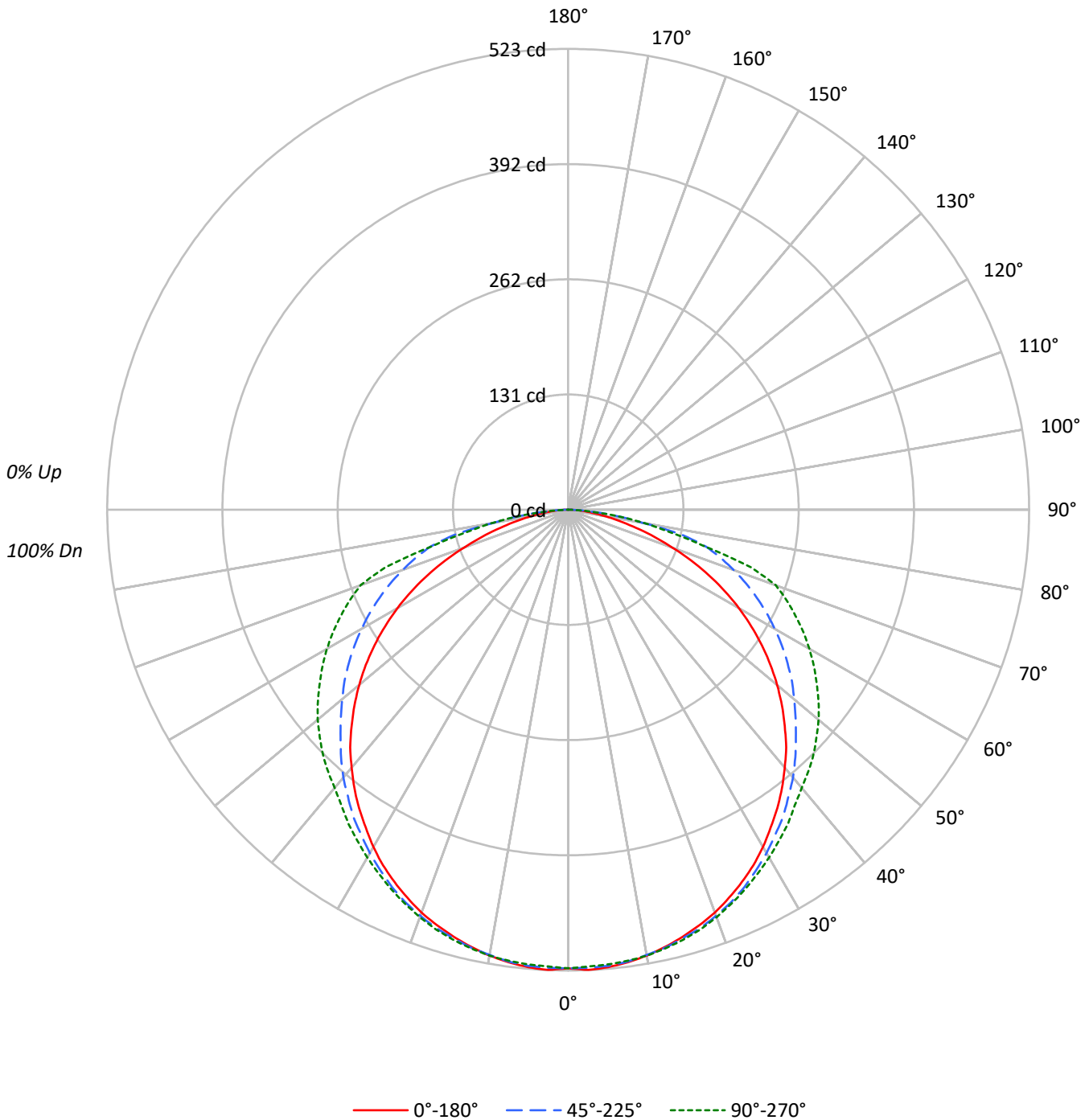
Input Watts (W): 21.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	700	700	700
5°	704	702	700
10°	702	701	702
15°	699	701	704
20°	697	702	705
25°	692	702	705
30°	687	699	708
35°	680	698	714
40°	671	697	724
45°	661	695	749
50°	648	700	776
55°	629	713	807
60°	602	728	850
65°	561	751	905
70°	496	785	985
75°	416	840	828
80°	332	664	689
85°	262	449	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	3.0
10°-20°	142.1	8.7
20°-30°	217.0	13.2
30°-40°	265.3	16.2
40°-50°	283.9	17.3
50°-60°	272.4	16.6
60°-70°	230.0	14.0
70°-80°	147.0	9.0
80°-90°	34.8	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°	408.4	24.9
0°-40°	673.7	41.0
0°-60°	1230.0	74.9
0°-90°	1641.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	521	518	520	519	518	50
15°	502	500	503	505	505	142
25°	466	466	473	474	475	215
35°	414	417	425	431	435	259
45°	348	353	365	382	394	268
55°	268	277	304	331	344	239
65°	176	193	236	269	284	174
75°	80	114	162	165	159	86
85°	17	28	29	28	27	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.4	520.4	520.4	520.4	520.4
2.5°	522.8	519.6	520.4	520.4	518.8
5°	521.2	518.0	519.6	518.8	518.0
7.5°	518.0	515.6	517.2	517.2	516.4
10°	513.9	511.5	513.1	513.9	513.9
12.5°	508.3	506.7	509.1	509.1	509.9
15°	501.8	500.2	503.4	505.1	505.1
17.5°	494.6	493.7	497.8	498.6	499.4
20°	486.5	485.7	490.5	490.5	492.1
22.5°	476.8	476.0	482.4	482.4	484.0
25°	466.3	465.5	472.7	474.4	475.2
27.5°	455.0	454.1	461.4	463.8	465.5
30°	442.0	442.0	450.1	453.3	455.8
32.5°	427.5	429.9	437.2	442.0	445.3
35°	413.7	417.0	425.1	430.7	434.8
37.5°	398.4	401.6	410.5	417.8	422.6
40°	382.2	386.3	396.8	404.9	412.1
42.5°	366.1	370.1	381.4	393.5	403.2
45°	347.5	353.1	365.3	382.2	393.5
47.5°	328.9	334.6	349.9	370.9	382.2
50°	309.5	316.0	334.6	358.8	370.9
52.5°	289.3	296.6	320.0	345.9	358.0
55°	268.3	277.2	303.8	331.3	344.2
57.5°	246.5	256.2	287.7	316.8	330.5
60°	223.8	236.0	270.7	301.4	316.0
62.5°	200.4	215.0	253.7	285.3	300.6
65°	176.2	193.1	236.0	269.1	284.4
67.5°	151.1	173.7	218.2	252.9	268.3
70°	126.1	152.7	199.6	235.2	250.5
72.5°	102.6	133.3	181.0	214.1	217.4
75°	80.0	113.9	161.6	164.9	159.2
77.5°	59.8	94.5	133.3	118.8	118.0
80°	42.8	76.0	85.7	88.1	88.9
82.5°	28.3	57.4	55.8	57.4	56.6
85°	17.0	28.3	29.1	28.3	26.7
87.5°	8.1	10.5	8.1	7.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)