

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: P230463

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230463
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-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1902.4 lumens
Efficiency: N/A
Efficacy: 88.0 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

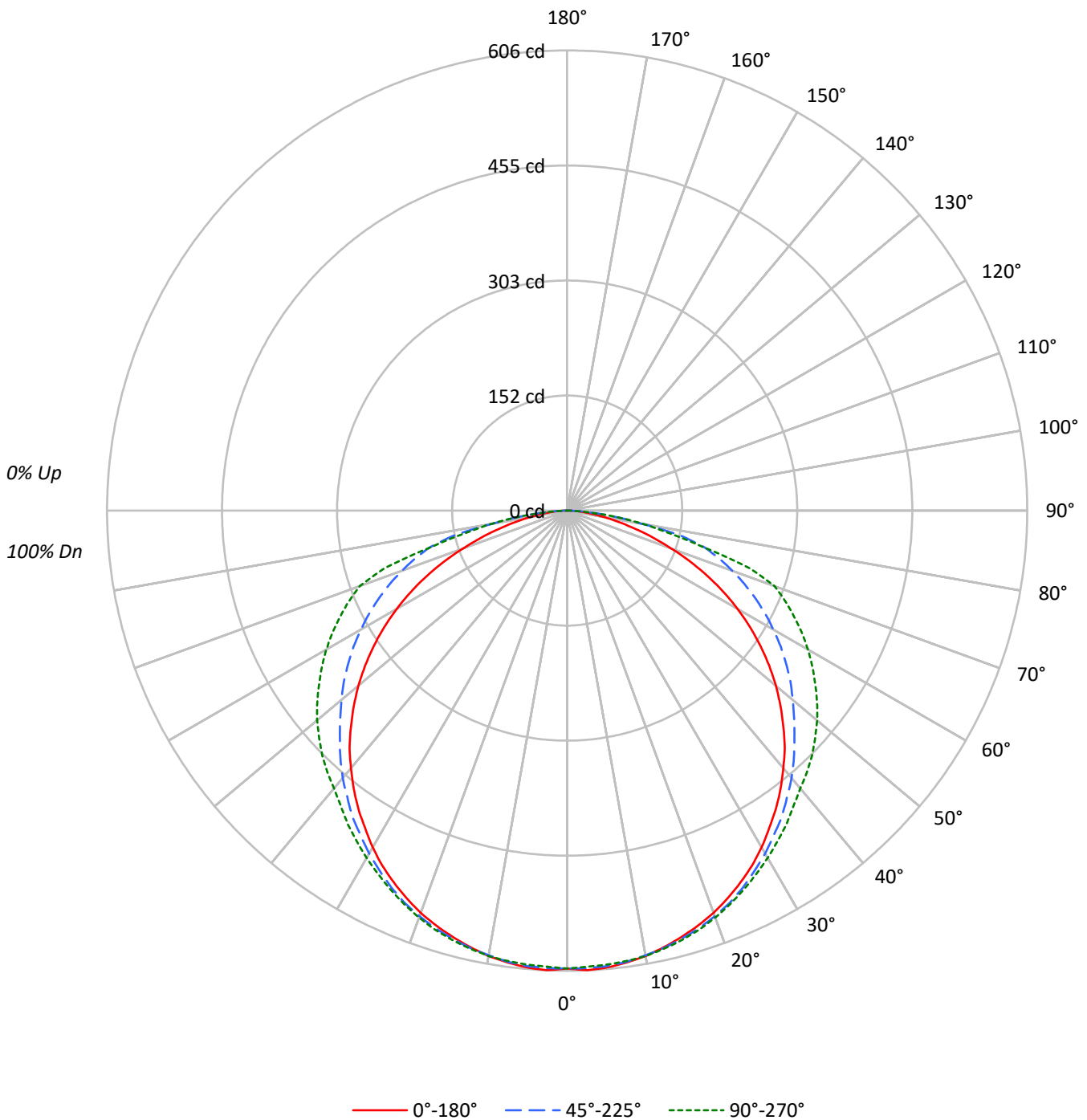
Input Watts (W): 21.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82	82	
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67	67	
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56	56	
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47	47	
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41	41	
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35	35	
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31	31	
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27	27	
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25	25	
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	811	811	811
5°	816	813	811
10°	814	813	814
15°	810	813	815
20°	807	814	817
25°	802	813	817
30°	796	810	821
35°	788	809	828
40°	778	808	839
45°	766	805	868
50°	751	812	900
55°	729	826	936
60°	698	844	985
65°	650	870	1049
70°	575	910	1142
75°	482	974	959
80°	384	769	798
85°	304	520	477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.0
10°-20°	164.6	8.7
20°-30°	251.4	13.2
30°-40°	307.4	16.2
40°-50°	329.0	17.3
50°-60°	315.6	16.6
60°-70°	266.5	14.0
70°-80°	170.3	9.0
80°-90°	40.3	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°	473.3	24.9
0°-40°	780.7	41.0
0°-60°	1425.3	74.9
0°-90°	1902.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	604	600	602	601	600	57
15°	582	580	583	585	585	164
25°	540	539	548	550	551	249
35°	480	483	493	499	504	300
45°	403	409	423	443	456	311
55°	311	321	352	384	399	277
65°	204	224	273	312	330	201
75°	93	132	187	191	184	100
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°	603.1	603.1	603.1	603.1	603.1
2.5°	605.9	602.1	603.1	603.1	601.2
5°	604.0	600.3	602.1	601.2	600.3
7.5°	600.3	597.5	599.3	599.3	598.4
10°	595.6	592.8	594.7	595.6	595.6
12.5°	589.0	587.2	590.0	590.0	590.9
15°	581.5	579.7	583.4	585.3	585.3
17.5°	573.1	572.2	576.9	577.8	578.7
20°	563.7	562.8	568.4	568.4	570.3
22.5°	552.5	551.6	559.1	559.1	560.9
25°	540.3	539.4	547.8	549.7	550.6
27.5°	527.2	526.3	534.7	537.5	539.4
30°	512.2	512.2	521.6	525.4	528.2
32.5°	495.4	498.2	506.6	512.2	516.0
35°	479.5	483.2	492.6	499.1	503.8
37.5°	461.7	465.4	475.7	484.1	489.8
40°	442.9	447.6	459.8	469.2	477.6
42.5°	424.2	428.9	442.0	456.1	467.3
45°	402.7	409.2	423.3	442.9	456.1
47.5°	381.1	387.7	405.5	429.8	442.9
50°	358.7	366.2	387.7	415.8	429.8
52.5°	335.3	343.7	370.8	400.8	414.9
55°	310.9	321.2	352.1	383.9	398.9
57.5°	285.6	296.9	333.4	367.1	383.0
60°	259.4	273.4	313.7	349.3	366.2
62.5°	232.2	249.1	294.0	330.6	348.4
65°	204.1	223.8	273.4	311.8	329.6
67.5°	175.1	201.3	252.8	293.1	310.9
70°	146.1	177.0	231.3	272.5	290.3
72.5°	118.9	154.5	209.8	248.2	251.9
75°	92.7	132.0	187.3	191.0	184.5
77.5°	69.3	109.6	154.5	137.7	136.7
80°	49.6	88.0	99.3	102.1	103.0
82.5°	32.8	66.5	64.6	66.5	65.6
85°	19.7	32.8	33.7	32.8	30.9
87.5°	9.4	12.2	9.4	8.4	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)