

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: P263779

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263779
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-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

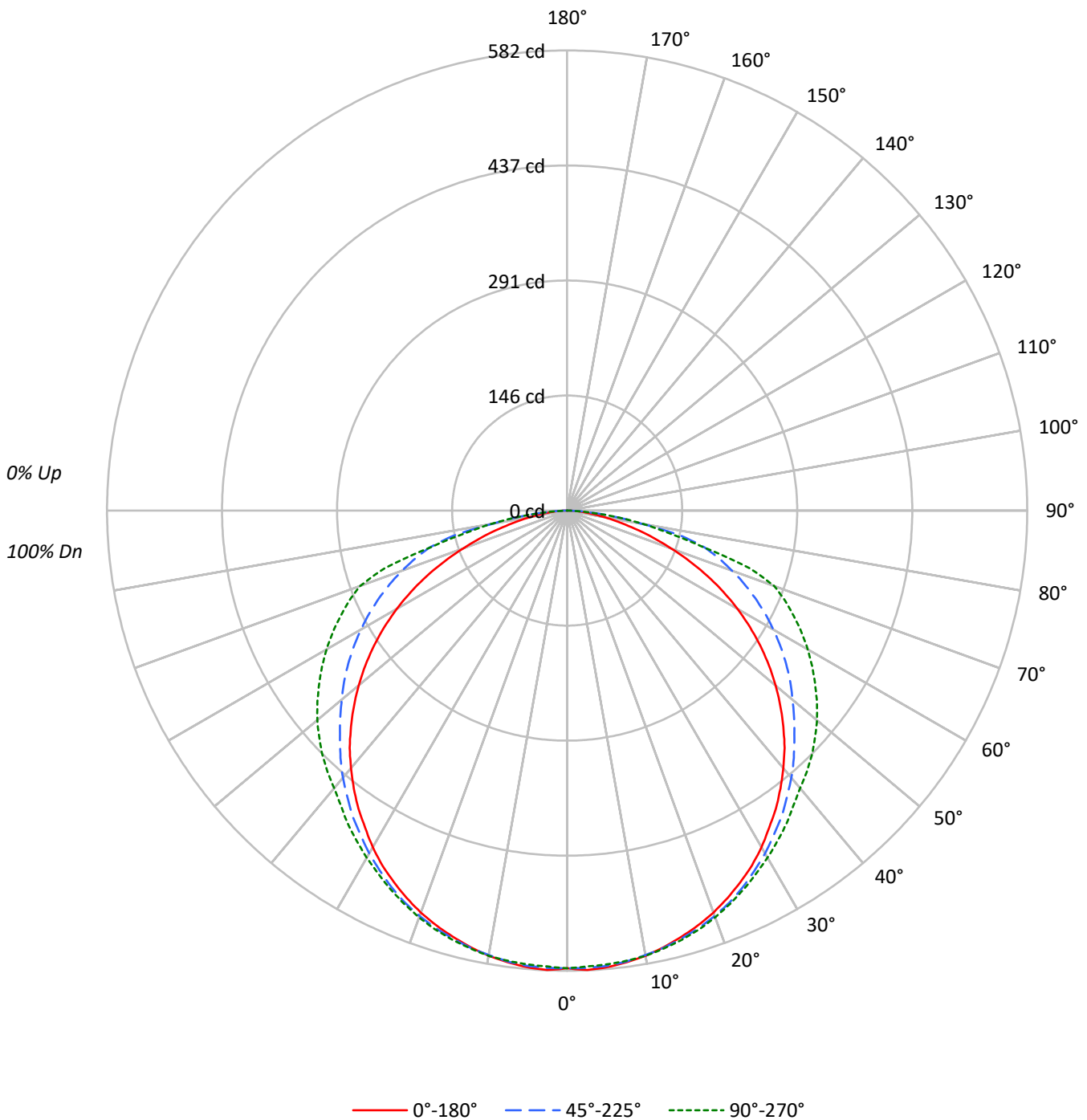
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	779	779	779
5°	783	781	778
10°	781	780	781
15°	778	780	783
20°	775	781	784
25°	770	781	785
30°	764	778	788
35°	756	777	794
40°	747	775	805
45°	735	773	833
50°	721	779	864
55°	700	793	898
60°	670	810	946
65°	624	836	1007
70°	552	873	1096
75°	463	935	921
80°	369	738	766
85°	292	500	459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.0
10°-20°	158.0	8.7
20°-30°	241.3	13.2
30°-40°	295.1	16.2
40°-50°	315.8	17.3
50°-60°	302.9	16.6
60°-70°	255.8	14.0
70°-80°	163.5	9.0
80°-90°	38.7	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°	454.3	24.9
0°-40°	749.3	41.0
0°-60°	1368.1	74.9
0°-90°	1826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	580	576	578	577	576	55
15°	558	556	560	562	562	158
25°	519	518	526	528	528	239
35°	460	464	473	479	484	288
45°	386	393	406	425	438	298
55°	298	308	338	368	383	266
65°	196	215	262	299	316	193
75°	89	127	180	183	177	96
85°	19	32	32	32	30	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.9	578.9	578.9	578.9	578.9
2.5°	581.6	578.0	578.9	578.9	577.1
5°	579.8	576.2	578.0	577.1	576.2
7.5°	576.2	573.5	575.3	575.3	574.4
10°	571.7	569.0	570.8	571.7	571.7
12.5°	565.4	563.6	566.3	566.3	567.2
15°	558.2	556.4	560.0	561.8	561.8
17.5°	550.1	549.2	553.7	554.6	555.5
20°	541.1	540.2	545.6	545.6	547.4
22.5°	530.3	529.4	536.6	536.6	538.4
25°	518.6	517.7	525.8	527.6	528.5
27.5°	506.1	505.2	513.2	515.9	517.7
30°	491.7	491.7	500.7	504.3	506.9
32.5°	475.5	478.2	486.3	491.7	495.3
35°	460.2	463.8	472.8	479.1	483.6
37.5°	443.1	446.7	456.6	464.7	470.1
40°	425.2	429.6	441.3	450.3	458.4
42.5°	407.2	411.7	424.3	437.7	448.5
45°	386.5	392.8	406.3	425.2	437.7
47.5°	365.8	372.1	389.2	412.6	425.2
50°	344.3	351.4	372.1	399.1	412.6
52.5°	321.8	329.9	355.9	384.7	398.2
55°	298.4	308.3	338.0	368.5	382.9
57.5°	274.1	284.9	320.0	352.3	367.6
60°	249.0	262.5	301.1	335.3	351.4
62.5°	222.9	239.1	282.2	317.3	334.4
65°	195.9	214.8	262.5	299.3	316.4
67.5°	168.1	193.3	242.7	281.3	298.4
70°	140.2	169.9	222.0	261.6	278.6
72.5°	114.2	148.3	201.3	238.2	241.8
75°	89.0	126.7	179.8	183.4	177.1
77.5°	66.5	105.2	148.3	132.1	131.2
80°	47.6	84.5	95.3	98.0	98.9
82.5°	31.5	63.8	62.0	63.8	62.9
85°	18.9	31.5	32.4	31.5	29.7
87.5°	9.0	11.7	9.0	8.1	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)