

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: P276974

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.5 lumens
Efficiency: N/A
Efficacy: 86.2 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

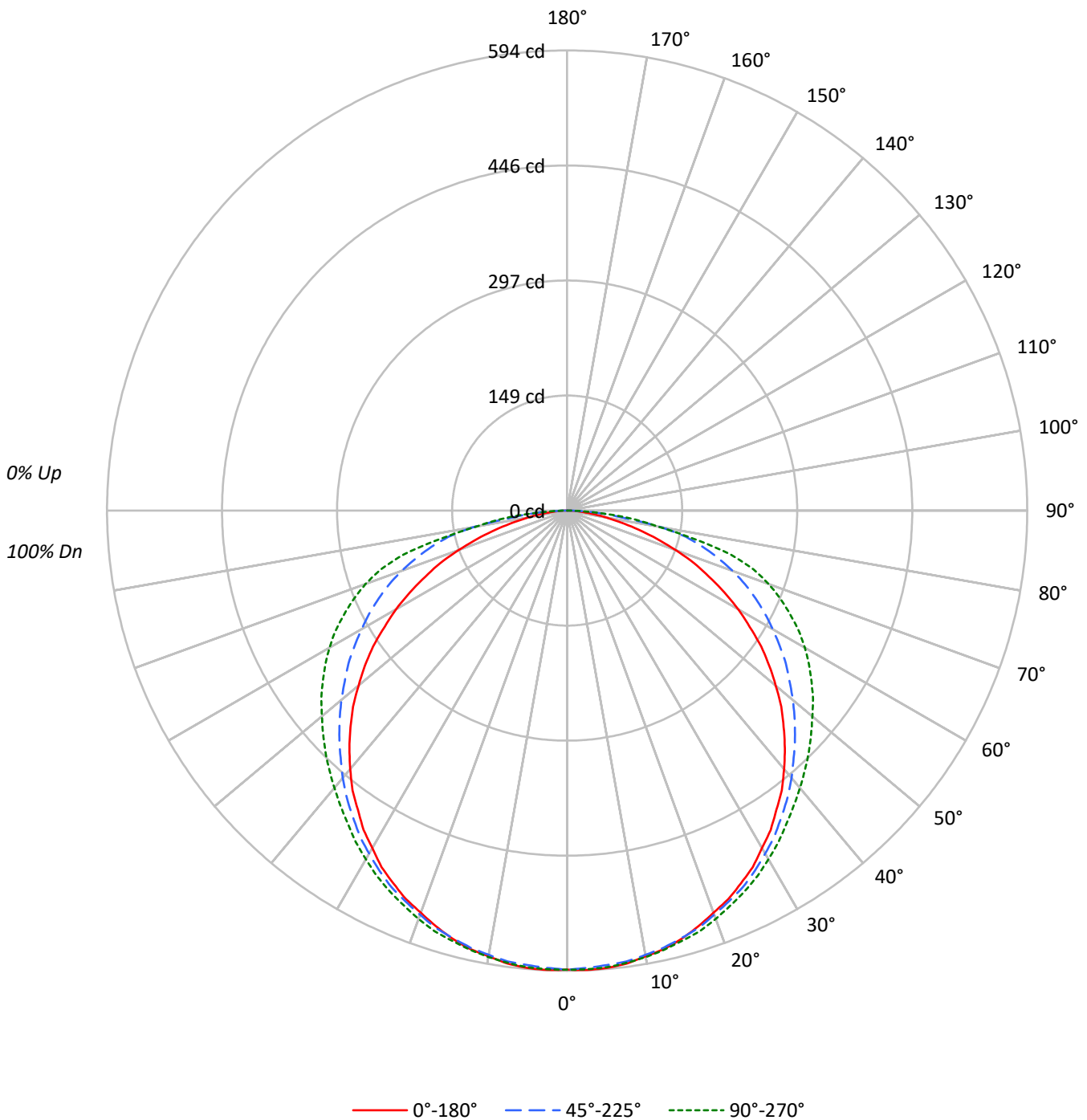
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	797	797	797
5°	800	795	799
10°	798	796	800
15°	797	796	801
20°	791	795	803
25°	788	797	805
30°	781	794	807
35°	774	792	811
40°	765	791	821
45°	752	792	840
50°	736	796	865
55°	717	809	903
60°	687	825	953
65°	643	854	1012
70°	585	893	1089
75°	495	943	1137
80°	391	949	920
85°	289	721	807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	3.0
10°-20°	161.8	8.6
20°-30°	247.4	13.1
30°-40°	302.5	16.0
40°-50°	322.4	17.1
50°-60°	308.2	16.4
60°-70°	261.1	13.9
70°-80°	175.5	9.3
80°-90°	49.5	2.6
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°	465.4	24.7
0°-40°	767.9	40.7
0°-60°	1398.5	74.2
0°-90°	1884.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	593	592	589	592	592	56
15°	572	572	571	576	575	161
25°	531	533	537	541	542	245
35°	471	475	482	492	494	295
45°	395	402	416	434	441	305
55°	306	317	345	372	385	272
65°	202	222	268	304	318	200
75°	95	130	181	212	219	102
85°	19	38	47	50	52	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.6	592.6	592.6	592.6	592.6
2.5°	593.6	593.6	590.8	592.6	592.6
5°	592.6	591.7	588.9	591.7	591.7
7.5°	589.8	588.9	587.0	589.8	588.9
10°	584.2	584.2	582.4	585.2	585.2
12.5°	579.6	578.6	577.7	581.4	580.5
15°	572.1	572.1	571.1	575.8	574.9
17.5°	562.7	563.7	564.6	568.3	569.3
20°	552.4	554.3	555.2	560.9	560.9
22.5°	543.1	544.0	545.9	551.5	551.5
25°	530.9	532.8	536.6	541.2	542.2
27.5°	518.8	519.7	524.4	530.9	531.9
30°	502.9	505.7	511.3	518.8	519.7
32.5°	488.9	491.7	498.2	505.7	507.6
35°	471.1	474.9	482.3	491.7	493.6
37.5°	455.2	458.0	467.4	477.7	480.5
40°	435.6	441.2	450.6	462.7	467.4
42.5°	416.0	421.6	432.8	448.7	454.3
45°	395.4	401.9	416.0	433.7	441.2
47.5°	374.8	382.3	398.2	418.8	427.2
50°	351.5	360.8	380.4	403.8	413.2
52.5°	329.0	340.3	361.8	387.9	400.1
55°	305.7	316.9	344.9	372.0	385.1
57.5°	279.5	294.5	325.3	356.1	370.2
60°	255.2	269.2	306.6	340.3	354.3
62.5°	229.0	247.7	287.9	323.4	337.4
65°	201.9	222.5	268.3	303.8	317.8
67.5°	177.6	200.0	248.6	284.2	298.2
70°	148.6	176.7	227.1	262.7	276.7
72.5°	121.5	152.4	204.7	239.3	252.4
75°	95.3	129.9	181.3	212.2	218.7
77.5°	71.0	107.5	157.0	170.1	165.5
80°	50.5	86.0	122.5	115.9	118.7
82.5°	32.7	65.4	75.7	86.0	88.8
85°	18.7	38.3	46.7	50.5	52.3
87.5°	8.4	14.0	18.7	18.7	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)