

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: P276884

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276884
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: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.5 lumens
Efficiency: N/A
Efficacy: 96.7 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

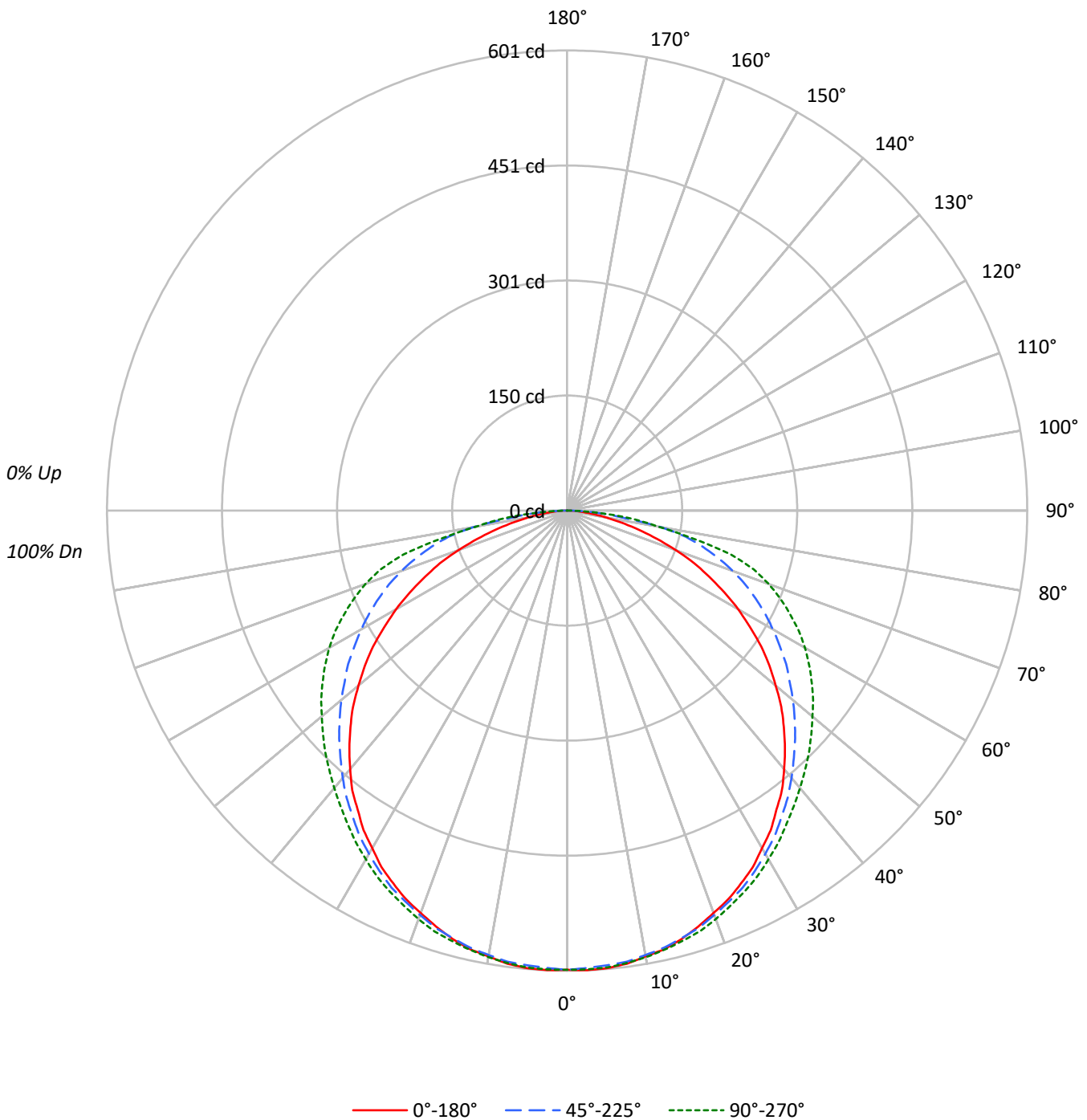
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	807	807	807
5°	810	805	809
10°	808	805	809
15°	807	805	811
20°	801	805	813
25°	798	806	815
30°	791	804	817
35°	783	802	821
40°	774	801	831
45°	762	801	850
50°	745	806	875
55°	726	819	914
60°	695	835	965
65°	651	864	1024
70°	592	904	1102
75°	502	954	1151
80°	396	960	931
85°	292	730	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.0
10°-20°	163.8	8.6
20°-30°	250.4	13.1
30°-40°	306.1	16.0
40°-50°	326.3	17.1
50°-60°	312.0	16.4
60°-70°	264.3	13.9
70°-80°	177.6	9.3
80°-90°	50.1	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°	471.1	24.7
0°-40°	777.2	40.7
0°-60°	1415.5	74.2
0°-90°	1907.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	600	599	596	599	599	57
15°	579	579	578	583	582	163
25°	537	539	543	548	549	248
35°	477	481	488	498	500	299
45°	400	407	421	439	447	309
55°	309	321	349	377	390	276
65°	204	225	272	308	322	203
75°	96	132	184	215	221	103
85°	19	39	47	51	53	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.8	599.8	599.8	599.8	599.8
2.5°	600.8	600.8	597.9	599.8	599.8
5°	599.8	598.9	596.1	598.9	598.9
7.5°	597.0	596.1	594.2	597.0	596.1
10°	591.3	591.3	589.4	592.3	592.3
12.5°	586.6	585.7	584.7	588.5	587.5
15°	579.0	579.0	578.1	582.8	581.9
17.5°	569.6	570.5	571.5	575.2	576.2
20°	559.2	561.1	562.0	567.7	567.7
22.5°	549.7	550.6	552.5	558.2	558.2
25°	537.4	539.3	543.1	547.8	548.8
27.5°	525.1	526.0	530.8	537.4	538.3
30°	509.0	511.9	517.5	525.1	526.0
32.5°	494.8	497.7	504.3	511.9	513.7
35°	476.8	480.6	488.2	497.7	499.6
37.5°	460.8	463.6	473.1	483.5	486.3
40°	440.9	446.6	456.0	468.3	473.1
42.5°	421.0	426.7	438.1	454.1	459.8
45°	400.2	406.8	421.0	439.0	446.6
47.5°	379.4	387.0	403.0	423.9	432.4
50°	355.7	365.2	385.1	408.7	418.2
52.5°	333.0	344.4	366.1	392.6	404.9
55°	309.4	320.7	349.1	376.6	389.8
57.5°	282.9	298.0	329.3	360.5	374.7
60°	258.3	272.5	310.3	344.4	358.6
62.5°	231.8	250.7	291.4	327.4	341.6
65°	204.4	225.2	271.5	307.5	321.7
67.5°	179.8	202.5	251.7	287.6	301.8
70°	150.4	178.8	229.9	265.9	280.1
72.5°	123.0	154.2	207.2	242.2	255.5
75°	96.5	131.5	183.5	214.8	221.4
77.5°	71.9	108.8	158.9	172.2	167.5
80°	51.1	87.0	123.9	117.3	120.2
82.5°	33.1	66.2	76.6	87.0	89.9
85°	18.9	38.8	47.3	51.1	53.0
87.5°	8.5	14.2	18.9	18.9	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)