

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: P276885

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276885
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.4 lumens
Efficiency: N/A
Efficacy: 98.4 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

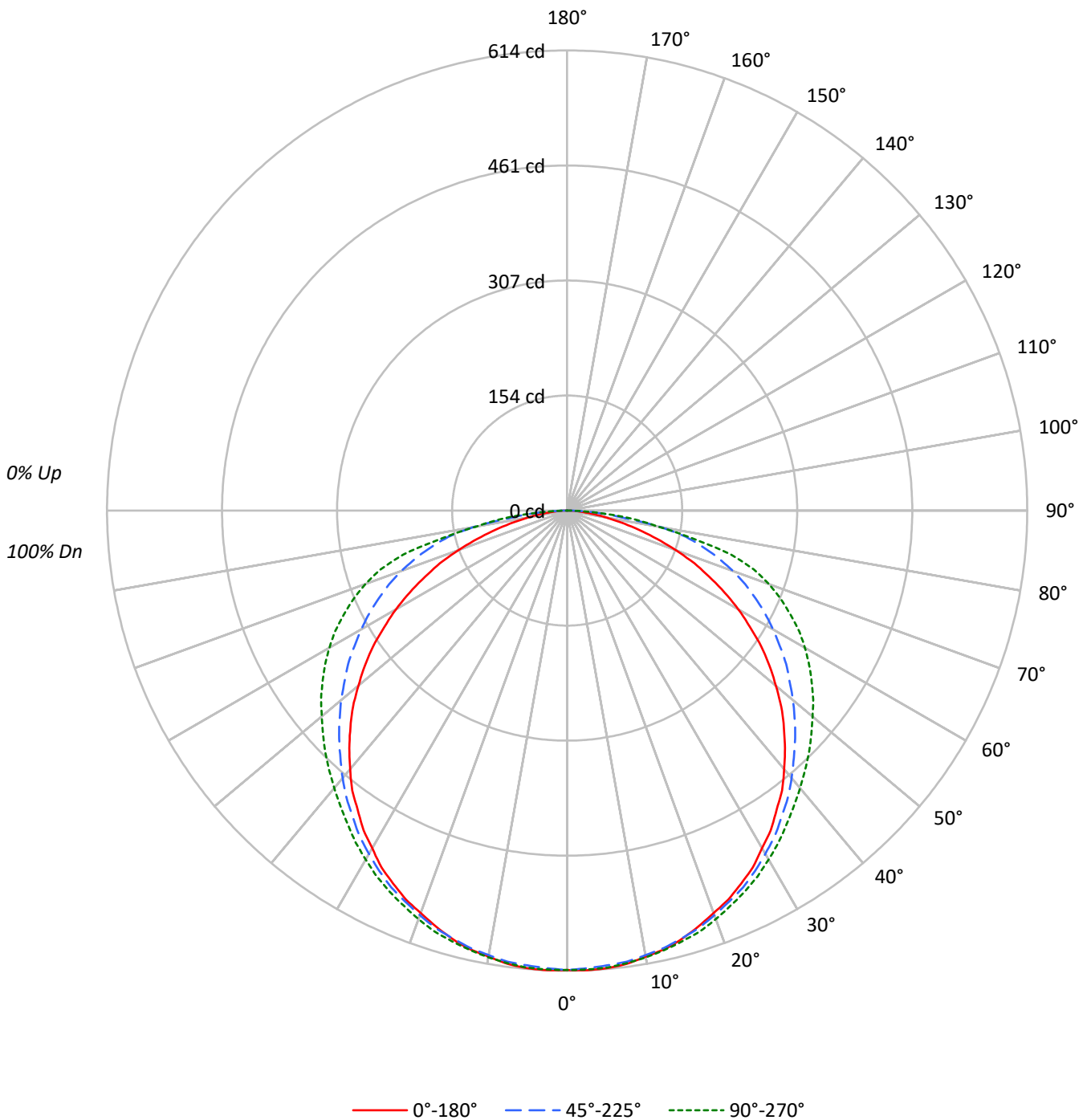
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	825	825	825
5°	828	823	827
10°	826	823	827
15°	824	823	828
20°	818	822	831
25°	815	824	833
30°	808	822	835
35°	800	819	839
40°	791	819	849
45°	778	819	868
50°	761	824	895
55°	742	837	935
60°	710	854	986
65°	665	883	1047
70°	605	924	1126
75°	513	975	1176
80°	404	982	951
85°	298	746	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.0
10°-20°	167.4	8.6
20°-30°	255.9	13.1
30°-40°	312.9	16.0
40°-50°	333.5	17.1
50°-60°	318.8	16.4
60°-70°	270.1	13.9
70°-80°	181.5	9.3
80°-90°	51.2	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°	481.5	24.7
0°-40°	794.3	40.7
0°-60°	1446.6	74.2
0°-90°	1949.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	613	612	609	612	612	58
15°	592	592	591	596	595	167
25°	549	551	555	560	561	253
35°	487	491	499	509	511	305
45°	409	416	430	449	456	315
55°	316	328	357	385	398	282
65°	209	230	278	314	329	207
75°	99	134	188	220	226	106
85°	19	40	48	52	54	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.0	613.0	613.0	613.0	613.0
2.5°	614.0	614.0	611.1	613.0	613.0
5°	613.0	612.1	609.2	612.1	612.1
7.5°	610.1	609.2	607.2	610.1	609.2
10°	604.3	604.3	602.4	605.3	605.3
12.5°	599.5	598.5	597.6	601.4	600.5
15°	591.8	591.8	590.8	595.6	594.7
17.5°	582.1	583.1	584.0	587.9	588.9
20°	571.5	573.4	574.4	580.2	580.2
22.5°	561.8	562.8	564.7	570.5	570.5
25°	549.2	551.2	555.0	559.9	560.8
27.5°	536.7	537.6	542.5	549.2	550.2
30°	520.2	523.1	528.9	536.7	537.6
32.5°	505.7	508.6	515.4	523.1	525.1
35°	487.3	491.2	498.9	508.6	510.6
37.5°	470.9	473.8	483.5	494.1	497.0
40°	450.6	456.4	466.1	478.6	483.5
42.5°	430.3	436.1	447.7	464.1	469.9
45°	409.0	415.8	430.3	448.7	456.4
47.5°	387.7	395.5	411.9	433.2	441.9
50°	363.6	373.2	393.5	417.7	427.4
52.5°	340.4	352.0	374.2	401.3	413.9
55°	316.2	327.8	356.8	384.8	398.4
57.5°	289.1	304.6	336.5	368.4	382.9
60°	264.0	278.5	317.2	352.0	366.5
62.5°	236.9	256.2	297.8	334.6	349.1
65°	208.9	230.1	277.5	314.3	328.8
67.5°	183.7	206.9	257.2	294.0	308.5
70°	153.7	182.8	235.0	271.7	286.2
72.5°	125.7	157.6	211.8	247.5	261.1
75°	98.6	134.4	187.6	219.5	226.3
77.5°	73.5	111.2	162.4	176.0	171.2
80°	52.2	89.0	126.7	119.9	122.8
82.5°	33.8	67.7	78.3	89.0	91.9
85°	19.3	39.6	48.3	52.2	54.1
87.5°	8.7	14.5	19.3	19.3	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)