

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: P276991

Luminaire Tested: **24CZ2-40-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276991
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: 24CZ2-40-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2431.7 lumens
Efficiency: N/A
Efficacy: 80.5 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

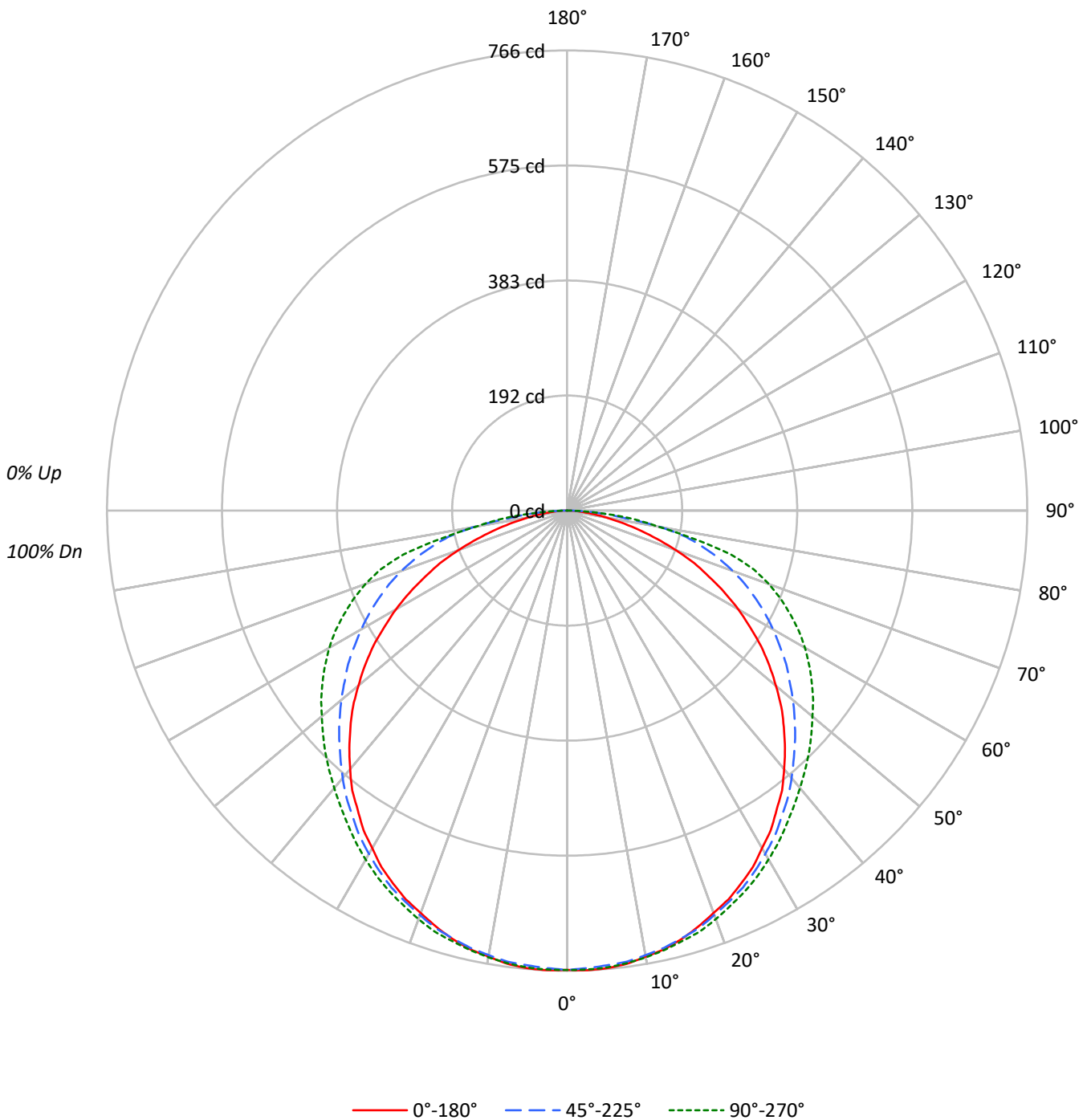
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1029	1029	1029
5°	1033	1026	1031
10°	1030	1027	1032
15°	1028	1027	1033
20°	1021	1026	1036
25°	1017	1028	1039
30°	1008	1025	1042
35°	998	1022	1046
40°	987	1021	1059
45°	971	1021	1083
50°	949	1028	1116
55°	925	1044	1166
60°	886	1065	1230
65°	829	1102	1306
70°	755	1153	1404
75°	639	1216	1467
80°	504	1224	1187
85°	372	931	1042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.0
10°-20°	208.8	8.6
20°-30°	319.3	13.1
30°-40°	390.3	16.0
40°-50°	416.0	17.1
50°-60°	397.7	16.4
60°-70°	336.9	13.9
70°-80°	226.4	9.3
80°-90°	63.9	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°	600.6	24.7
0°-40°	990.8	40.7
0°-60°	1804.5	74.2
0°-90°	2431.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	760	764	764	73
15°	738	738	737	743	742	208
25°	685	688	692	698	700	316
35°	608	613	622	634	637	381
45°	510	519	537	560	569	394
55°	394	409	445	480	497	351
65°	260	287	346	392	410	259
75°	123	168	234	274	282	132
85°	24	50	60	65	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.7	764.7	764.7	764.7	764.7
2.5°	765.9	765.9	762.3	764.7	764.7
5°	764.7	763.5	759.9	763.5	763.5
7.5°	761.1	759.9	757.5	761.1	759.9
10°	753.9	753.9	751.4	755.1	755.1
12.5°	747.8	746.6	745.4	750.2	749.0
15°	738.2	738.2	737.0	743.0	741.8
17.5°	726.1	727.3	728.5	733.3	734.6
20°	712.8	715.3	716.5	723.7	723.7
22.5°	700.8	702.0	704.4	711.6	711.6
25°	685.1	687.5	692.3	698.4	699.6
27.5°	669.4	670.6	676.7	685.1	686.3
30°	648.9	652.5	659.8	669.4	670.6
32.5°	630.8	634.4	642.9	652.5	654.9
35°	607.9	612.7	622.4	634.4	636.9
37.5°	587.4	591.0	603.1	616.4	620.0
40°	562.1	569.3	581.4	597.1	603.1
42.5°	536.7	544.0	558.5	579.0	586.2
45°	510.2	518.7	536.7	559.7	569.3
47.5°	483.7	493.3	513.8	540.4	551.2
50°	453.5	465.6	490.9	521.1	533.1
52.5°	424.6	439.0	466.8	500.6	516.2
55°	394.4	408.9	445.1	480.1	496.9
57.5°	360.6	379.9	419.7	459.5	477.6
60°	329.3	347.4	395.6	439.0	457.1
62.5°	295.5	319.6	371.5	417.3	435.4
65°	260.5	287.1	346.2	392.0	410.1
67.5°	229.2	258.1	320.8	366.7	384.8
70°	191.8	228.0	293.1	338.9	357.0
72.5°	156.8	196.6	264.2	308.8	325.7
75°	123.0	167.7	234.0	273.8	282.2
77.5°	91.7	138.7	202.6	219.5	213.5
80°	65.1	111.0	158.0	149.6	153.2
82.5°	42.2	84.4	97.7	111.0	114.6
85°	24.1	49.5	60.3	65.1	67.5
87.5°	10.9	18.1	24.1	24.1	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)