

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: P277041

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277041
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: 24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2432.4 lumens
Efficiency: N/A
Efficacy: 83.6 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

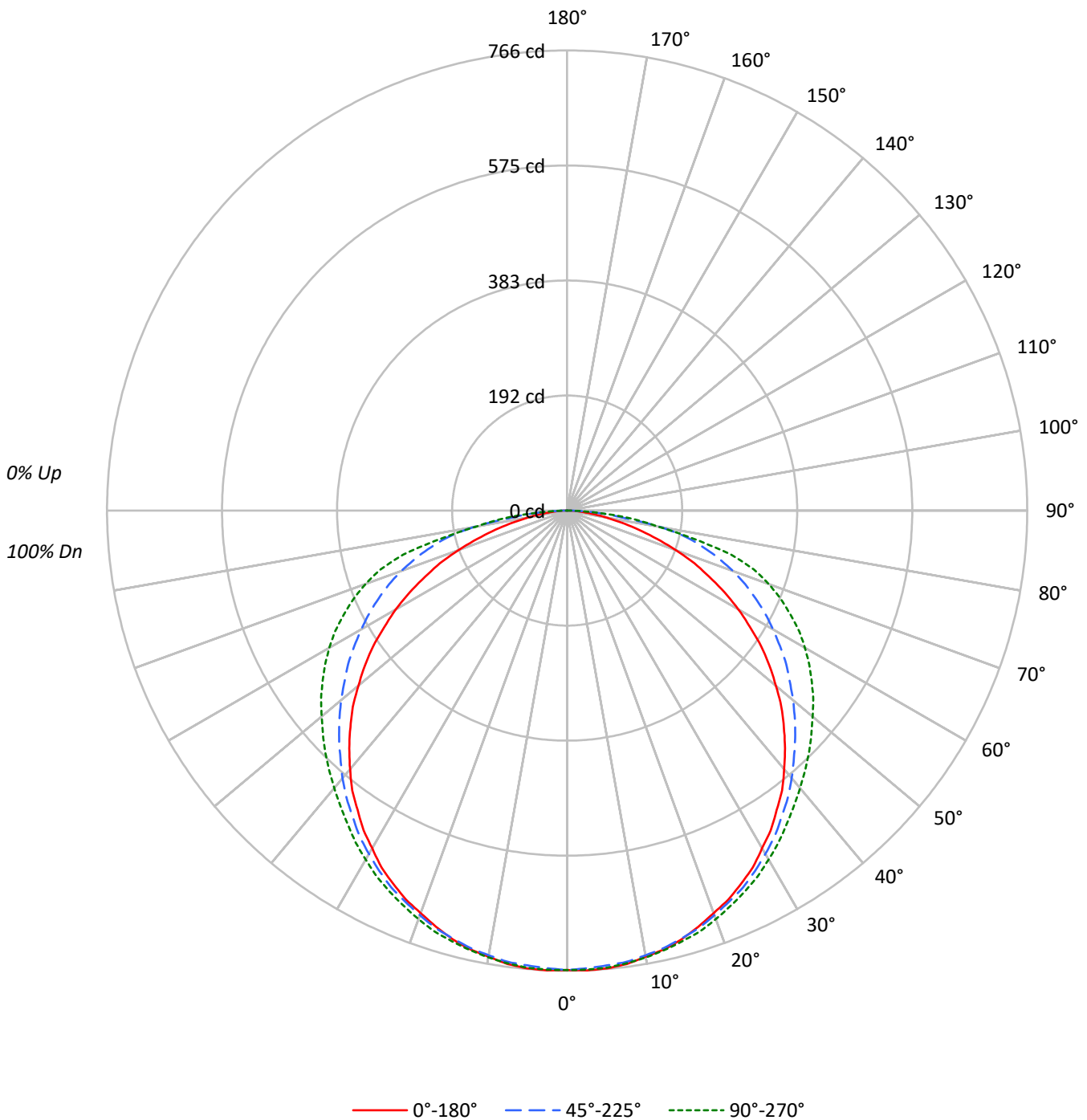
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	1027	1031
10°	1030	1027	1032
15°	1029	1027	1034
20°	1021	1026	1037
25°	1017	1028	1039
30°	1008	1025	1042
35°	999	1022	1046
40°	987	1021	1059
45°	971	1022	1084
50°	949	1028	1116
55°	925	1044	1166
60°	886	1065	1231
65°	830	1103	1306
70°	755	1153	1405
75°	640	1217	1468
80°	504	1224	1187
85°	372	931	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.0
10°-20°	208.8	8.6
20°-30°	319.3	13.1
30°-40°	390.4	16.0
40°-50°	416.1	17.1
50°-60°	397.8	16.4
60°-70°	337.0	13.9
70°-80°	226.5	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°	600.7	24.7
0°-40°	991.1	40.7
0°-60°	1805.0	74.2
0°-90°	2432.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.4	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	699	700	316
35°	608	613	622	635	637	381
45°	510	519	537	560	570	394
55°	394	409	445	480	497	351
65°	261	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°	764.9	764.9	764.9	764.9	764.9
2.5°	766.1	766.1	762.5	764.9	764.9
5°	764.9	763.7	760.1	763.7	763.7
7.5°	761.3	760.1	757.7	761.3	760.1
10°	754.1	754.1	751.6	755.3	755.3
12.5°	748.0	746.8	745.6	750.4	749.2
15°	738.4	738.4	737.2	743.2	742.0
17.5°	726.3	727.5	728.7	733.5	734.7
20°	713.0	715.4	716.6	723.9	723.9
22.5°	701.0	702.2	704.6	711.8	711.8
25°	685.3	687.7	692.5	698.6	699.8
27.5°	669.6	670.8	676.8	685.3	686.5
30°	649.1	652.7	659.9	669.6	670.8
32.5°	631.0	634.6	643.1	652.7	655.1
35°	608.1	612.9	622.5	634.6	637.0
37.5°	587.6	591.2	603.2	616.5	620.1
40°	562.2	569.5	581.5	597.2	603.2
42.5°	536.9	544.1	558.6	579.1	586.3
45°	510.3	518.8	536.9	559.8	569.5
47.5°	483.8	493.5	514.0	540.5	551.4
50°	453.6	465.7	491.0	521.2	533.3
52.5°	424.7	439.2	466.9	500.7	516.4
55°	394.5	409.0	445.2	480.2	497.1
57.5°	360.7	380.0	419.9	459.7	477.8
60°	329.4	347.5	395.7	439.2	457.3
62.5°	295.6	319.7	371.6	417.4	435.5
65°	260.6	287.1	346.3	392.1	410.2
67.5°	229.2	258.2	320.9	366.8	384.9
70°	191.8	228.0	293.2	339.0	357.1
72.5°	156.8	196.7	264.2	308.9	325.7
75°	123.1	167.7	234.1	273.9	282.3
77.5°	91.7	138.7	202.7	219.6	213.5
80°	65.1	111.0	158.0	149.6	153.2
82.5°	42.2	84.5	97.7	111.0	114.6
85°	24.1	49.5	60.3	65.1	67.6
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)