

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: P277143

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277143
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: 24CZ2-50-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2494.1 lumens
Efficiency: N/A
Efficacy: 63.0 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

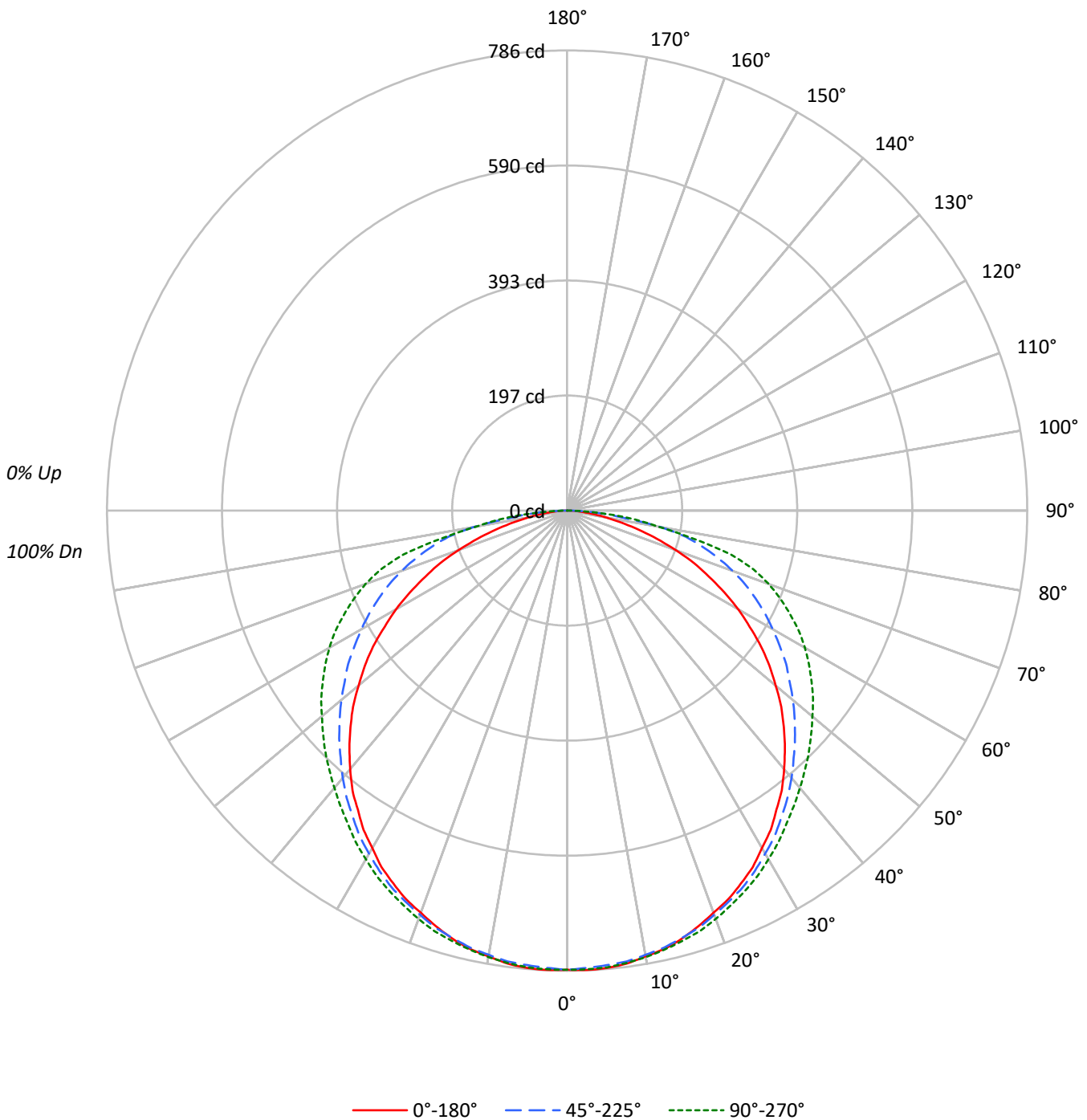
Input Watts (W): 39.618
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1055	1055	1055
5°	1059	1053	1058
10°	1056	1053	1058
15°	1055	1053	1060
20°	1047	1052	1063
25°	1043	1054	1065
30°	1034	1051	1069
35°	1024	1048	1073
40°	1013	1047	1086
45°	996	1047	1111
50°	974	1054	1145
55°	949	1071	1196
60°	909	1092	1262
65°	851	1130	1339
70°	774	1183	1441
75°	656	1248	1505
80°	518	1256	1217
85°	381	956	1070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.0
10°-20°	214.1	8.6
20°-30°	327.4	13.1
30°-40°	400.3	16.0
40°-50°	426.6	17.1
50°-60°	407.9	16.4
60°-70°	345.5	13.9
70°-80°	232.2	9.3
80°-90°	65.5	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°	616.0	24.7
0°-40°	1016.3	40.7
0°-60°	1850.8	74.2
0°-90°	2494.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2494.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	784	783	779	783	783	75
15°	757	757	756	762	761	213
25°	703	705	710	716	718	324
35°	624	628	638	651	653	391
45°	523	532	550	574	584	404
55°	404	419	456	492	510	360
65°	267	294	355	402	421	265
75°	126	172	240	281	290	135
85°	25	51	62	67	69	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.3	784.3	784.3	784.3	784.3
2.5°	785.6	785.6	781.8	784.3	784.3
5°	784.3	783.1	779.4	783.1	783.1
7.5°	780.6	779.4	776.9	780.6	779.4
10°	773.2	773.2	770.7	774.4	774.4
12.5°	767.0	765.8	764.5	769.5	768.2
15°	757.1	757.1	755.9	762.0	760.8
17.5°	744.7	746.0	747.2	752.2	753.4
20°	731.1	733.6	734.8	742.3	742.3
22.5°	718.8	720.0	722.5	729.9	729.9
25°	702.7	705.1	710.1	716.3	717.5
27.5°	686.6	687.8	694.0	702.7	703.9
30°	665.6	669.3	676.7	686.6	687.8
32.5°	647.0	650.7	659.4	669.3	671.7
35°	623.5	628.4	638.3	650.7	653.2
37.5°	602.5	606.2	618.5	632.2	635.9
40°	576.5	583.9	596.3	612.4	618.5
42.5°	550.5	557.9	572.8	593.8	601.2
45°	523.3	531.9	550.5	574.0	583.9
47.5°	496.1	506.0	527.0	554.2	565.4
50°	465.1	477.5	503.5	534.4	546.8
52.5°	435.5	450.3	478.8	513.4	529.5
55°	404.5	419.4	456.5	492.4	509.7
57.5°	369.9	389.7	430.5	471.3	489.9
60°	337.7	356.3	405.8	450.3	468.9
62.5°	303.1	327.8	381.0	428.0	446.6
65°	267.2	294.4	355.0	402.1	420.6
67.5°	235.0	264.7	329.1	376.1	394.6
70°	196.7	233.8	300.6	347.6	366.2
72.5°	160.8	201.6	270.9	316.7	334.0
75°	126.2	172.0	240.0	280.8	289.5
77.5°	94.0	142.3	207.8	225.2	219.0
80°	66.8	113.8	162.1	153.4	157.1
82.5°	43.3	86.6	100.2	113.8	117.5
85°	24.7	50.7	61.9	66.8	69.3
87.5°	11.1	18.6	24.7	24.7	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)