

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: P276902

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276902
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-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: 2531.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

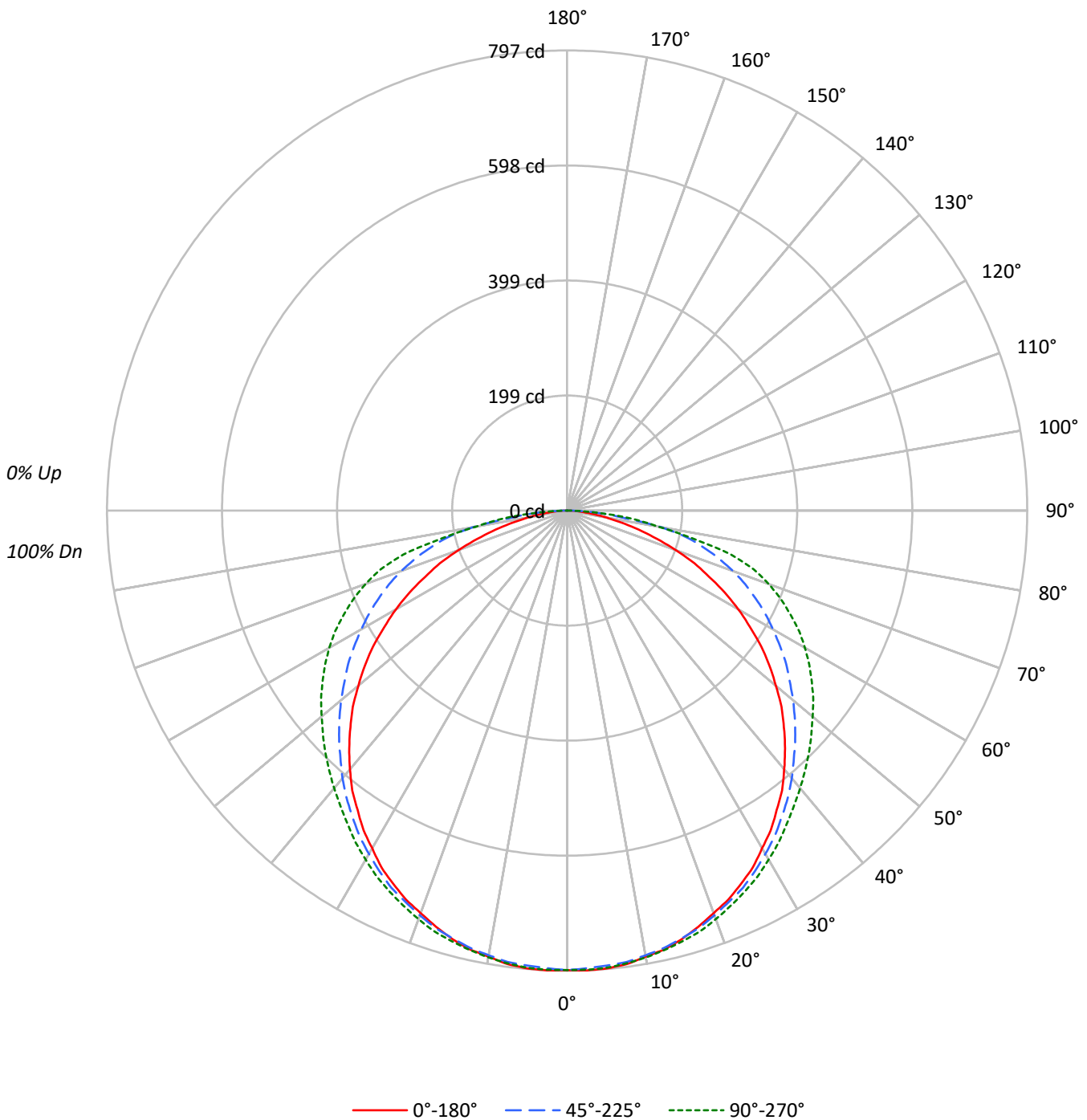
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1071	1071	1071
5°	1075	1068	1073
10°	1072	1069	1074
15°	1070	1068	1075
20°	1062	1068	1078
25°	1059	1070	1081
30°	1049	1067	1084
35°	1039	1064	1089
40°	1028	1063	1102
45°	1010	1063	1127
50°	988	1069	1162
55°	963	1087	1213
60°	922	1108	1280
65°	863	1147	1359
70°	785	1200	1462
75°	666	1266	1527
80°	525	1275	1235
85°	387	969	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.0
10°-20°	217.3	8.6
20°-30°	332.3	13.1
30°-40°	406.2	16.0
40°-50°	432.9	17.1
50°-60°	413.9	16.4
60°-70°	350.7	13.9
70°-80°	235.7	9.3
80°-90°	66.5	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°	625.1	24.7
0°-40°	1031.3	40.7
0°-60°	1878.2	74.2
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	796	795	791	795	795	76
15°	768	768	767	773	772	217
25°	713	716	721	727	728	329
35°	633	638	648	660	663	396
45°	531	540	559	582	592	410
55°	410	426	463	500	517	366
65°	271	299	360	408	427	269
75°	128	174	244	285	294	137
85°	25	52	63	68	70	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.9	795.9	795.9	795.9	795.9
2.5°	797.2	797.2	793.4	795.9	795.9
5°	795.9	794.7	790.9	794.7	794.7
7.5°	792.2	790.9	788.4	792.2	790.9
10°	784.6	784.6	782.1	785.9	785.9
12.5°	778.3	777.1	775.8	780.9	779.6
15°	768.3	768.3	767.0	773.3	772.1
17.5°	755.7	757.0	758.3	763.3	764.5
20°	741.9	744.5	745.7	753.2	753.2
22.5°	729.4	730.6	733.2	740.7	740.7
25°	713.1	715.6	720.6	726.9	728.1
27.5°	696.7	698.0	704.3	713.1	714.3
30°	675.4	679.2	686.7	696.7	698.0
32.5°	656.6	660.3	669.1	679.2	681.7
35°	632.7	637.7	647.8	660.3	662.8
37.5°	611.4	615.1	627.7	641.5	645.3
40°	585.0	592.5	605.1	621.4	627.7
42.5°	558.7	566.2	581.2	602.6	610.1
45°	531.0	539.8	558.7	582.5	592.5
47.5°	503.4	513.5	534.8	562.4	573.7
50°	472.0	484.6	510.9	542.3	554.9
52.5°	441.9	457.0	485.8	521.0	537.3
55°	410.5	425.6	463.2	499.6	517.2
57.5°	375.4	395.4	436.9	478.3	497.1
60°	342.7	361.6	411.8	457.0	475.8
62.5°	307.6	332.7	386.7	434.4	453.2
65°	271.2	298.8	360.3	408.0	426.8
67.5°	238.5	268.7	333.9	381.6	400.5
70°	199.6	237.3	305.1	352.8	371.6
72.5°	163.2	204.6	274.9	321.4	339.0
75°	128.1	174.5	243.5	285.0	293.8
77.5°	95.4	144.4	210.9	228.5	222.2
80°	67.8	115.5	164.5	155.7	159.4
82.5°	43.9	87.9	101.7	115.5	119.3
85°	25.1	51.5	62.8	67.8	70.3
87.5°	11.3	18.8	25.1	25.1	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)