

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: P277039

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277039
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2347.8 lumens
Efficiency: N/A
Efficacy: 81.4 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

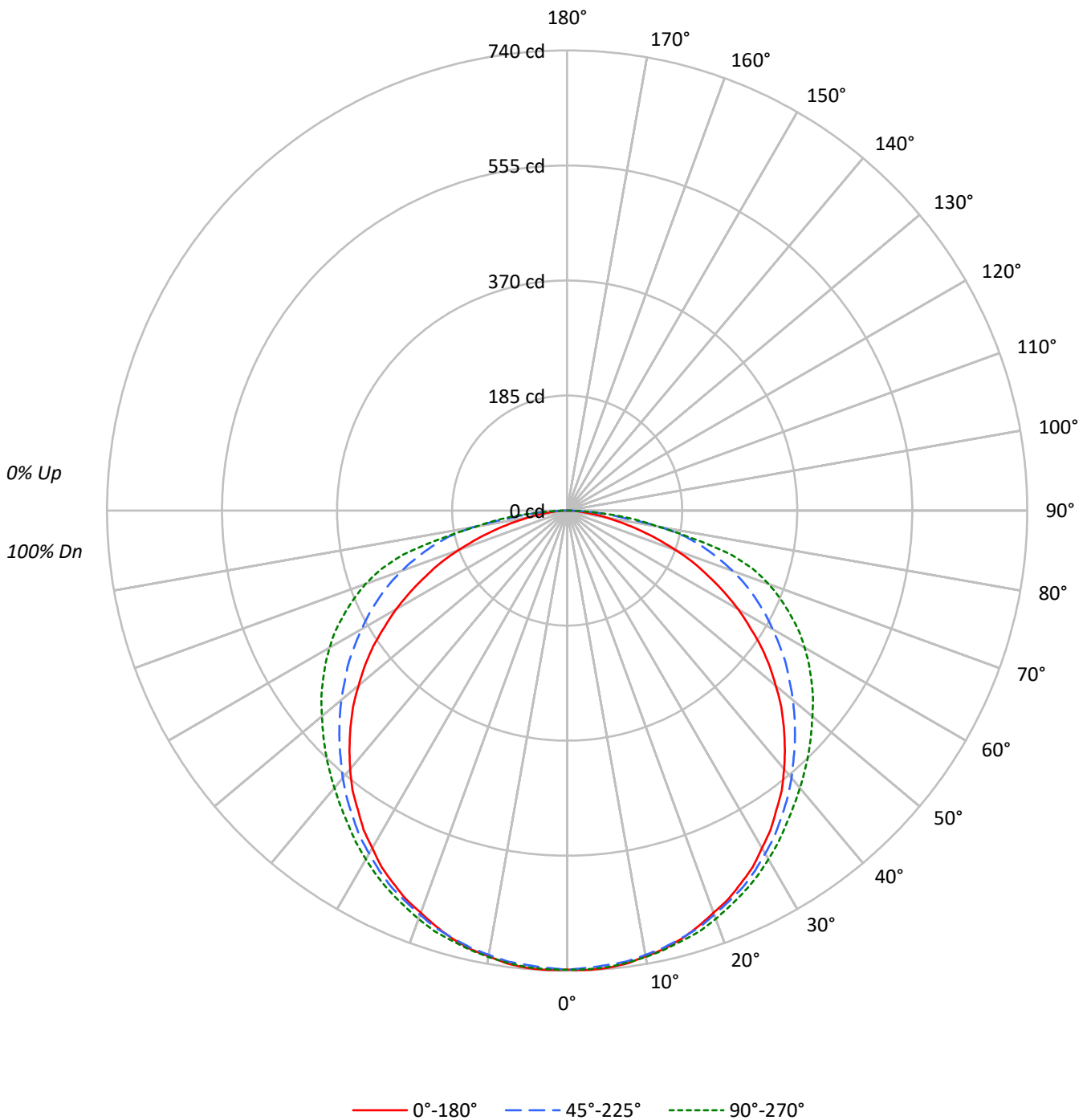
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	993	993	993
5°	997	991	996
10°	994	991	996
15°	993	991	998
20°	985	990	1000
25°	982	992	1003
30°	973	990	1006
35°	964	987	1010
40°	953	986	1023
45°	937	986	1046
50°	917	992	1077
55°	893	1008	1126
60°	855	1028	1188
65°	801	1064	1260
70°	729	1113	1356
75°	618	1174	1417
80°	487	1182	1146
85°	360	898	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.0
10°-20°	201.6	8.6
20°-30°	308.2	13.1
30°-40°	376.8	16.0
40°-50°	401.6	17.1
50°-60°	384.0	16.4
60°-70°	325.3	13.9
70°-80°	218.6	9.3
80°-90°	61.7	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°	579.8	24.7
0°-40°	956.6	40.7
0°-60°	1742.2	74.2
0°-90°	2347.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	738	737	734	737	737	70
15°	713	713	712	717	716	201
25°	661	664	668	674	675	305
35°	587	592	601	612	615	368
45°	493	501	518	540	550	380
55°	381	395	430	464	480	339
65°	252	277	334	378	396	250
75°	119	162	226	264	272	127
85°	23	48	58	63	65	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.3	738.3	738.3	738.3	738.3
2.5°	739.5	739.5	736.0	738.3	738.3
5°	738.3	737.1	733.6	737.1	737.1
7.5°	734.8	733.6	731.3	734.8	733.6
10°	727.8	727.8	725.5	729.0	729.0
12.5°	722.0	720.8	719.7	724.3	723.2
15°	712.7	712.7	711.5	717.3	716.2
17.5°	701.0	702.2	703.4	708.0	709.2
20°	688.2	690.6	691.7	698.7	698.7
22.5°	676.6	677.7	680.1	687.1	687.1
25°	661.4	663.8	668.4	674.3	675.4
27.5°	646.3	647.5	653.3	661.4	662.6
30°	626.5	630.0	637.0	646.3	647.5
32.5°	609.0	612.5	620.7	630.0	632.3
35°	586.9	591.6	600.9	612.5	614.9
37.5°	567.1	570.6	582.3	595.1	598.6
40°	542.7	549.6	561.3	576.4	582.3
42.5°	518.2	525.2	539.2	559.0	566.0
45°	492.6	500.7	518.2	540.3	549.6
47.5°	467.0	476.3	496.1	521.7	532.2
50°	437.9	449.5	474.0	503.1	514.7
52.5°	409.9	423.9	450.7	483.3	498.4
55°	380.8	394.8	429.7	463.5	479.8
57.5°	348.2	366.8	405.2	443.7	461.1
60°	317.9	335.4	382.0	423.9	441.3
62.5°	285.3	308.6	358.7	402.9	420.4
65°	251.5	277.2	334.2	378.5	395.9
67.5°	221.3	249.2	309.8	354.0	371.5
70°	185.2	220.1	283.0	327.2	344.7
72.5°	151.4	189.8	255.0	298.1	314.4
75°	118.8	161.9	225.9	264.3	272.5
77.5°	88.5	133.9	195.6	211.9	206.1
80°	62.9	107.1	152.6	144.4	147.9
82.5°	40.8	81.5	94.3	107.1	110.6
85°	23.3	47.7	58.2	62.9	65.2
87.5°	10.5	17.5	23.3	23.3	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)