

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: P277055

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277055
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: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2735.9 lumens
Efficiency: N/A
Efficacy: 76.4 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

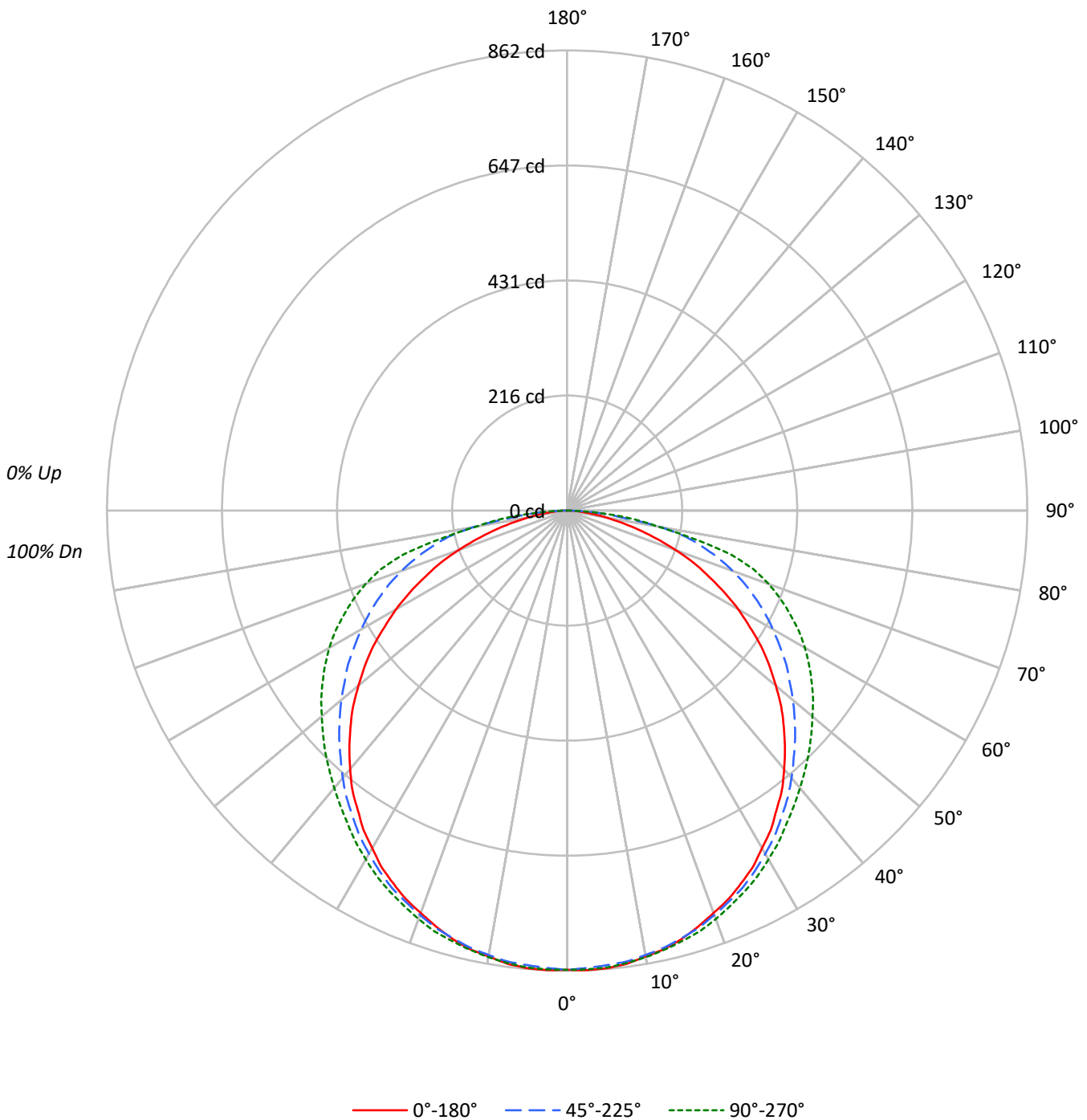
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1158	1158	1158
5°	1162	1155	1160
10°	1159	1155	1161
15°	1157	1155	1163
20°	1148	1154	1166
25°	1144	1156	1169
30°	1134	1153	1172
35°	1123	1150	1177
40°	1111	1149	1192
45°	1092	1149	1219
50°	1068	1156	1256
55°	1041	1175	1312
60°	997	1198	1384
65°	933	1240	1469
70°	849	1297	1580
75°	719	1369	1651
80°	568	1378	1335
85°	418	1048	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.0
10°-20°	234.9	8.6
20°-30°	359.2	13.1
30°-40°	439.1	16.0
40°-50°	468.0	17.1
50°-60°	447.5	16.4
60°-70°	379.1	13.9
70°-80°	254.8	9.3
80°-90°	71.9	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°	675.7	24.7
0°-40°	1114.8	40.7
0°-60°	2030.2	74.2
0°-90°	2735.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	860	859	855	859	859	82
15°	830	830	829	836	835	234
25°	771	774	779	786	787	355
35°	684	689	700	714	716	428
45°	574	584	604	630	640	443
55°	444	460	501	540	559	395
65°	293	323	390	441	461	291
75°	138	189	263	308	318	148
85°	27	56	68	73	76	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.3	860.3	860.3	860.3	860.3
2.5°	861.7	861.7	857.6	860.3	860.3
5°	860.3	859.0	854.9	859.0	859.0
7.5°	856.3	854.9	852.2	856.3	854.9
10°	848.1	848.1	845.4	849.5	849.5
12.5°	841.3	840.0	838.6	844.1	842.7
15°	830.5	830.5	829.1	835.9	834.6
17.5°	816.9	818.3	819.6	825.1	826.4
20°	802.0	804.7	806.1	814.2	814.2
22.5°	788.4	789.8	792.5	800.6	800.6
25°	770.8	773.5	778.9	785.7	787.1
27.5°	753.1	754.5	761.3	770.8	772.1
30°	730.1	734.1	742.3	753.1	754.5
32.5°	709.7	713.8	723.3	734.1	736.9
35°	683.9	689.4	700.2	713.8	716.5
37.5°	660.9	664.9	678.5	693.4	697.5
40°	632.4	640.5	654.1	671.7	678.5
42.5°	603.9	612.0	628.3	651.4	659.5
45°	574.0	583.5	603.9	629.7	640.5
47.5°	544.2	555.0	578.1	607.9	620.2
50°	510.2	523.8	552.3	586.2	599.8
52.5°	477.7	494.0	525.2	563.2	580.8
55°	443.7	460.0	500.7	540.1	559.1
57.5°	405.7	427.5	472.2	517.0	537.4
60°	370.5	390.8	445.1	494.0	514.3
62.5°	332.5	359.6	418.0	469.5	489.9
65°	293.1	323.0	389.5	441.0	461.4
67.5°	257.8	290.4	361.0	412.5	432.9
70°	215.8	256.5	329.8	381.3	401.7
72.5°	176.4	221.2	297.2	347.4	366.4
75°	138.4	188.6	263.3	308.0	317.5
77.5°	103.1	156.1	228.0	247.0	240.2
80°	73.3	124.8	177.8	168.3	172.3
82.5°	47.5	95.0	109.9	124.8	128.9
85°	27.1	55.6	67.9	73.3	76.0
87.5°	12.2	20.4	27.1	27.1	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)