

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: P277054

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277054
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2605.4 lumens
Efficiency: N/A
Efficacy: 73.7 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

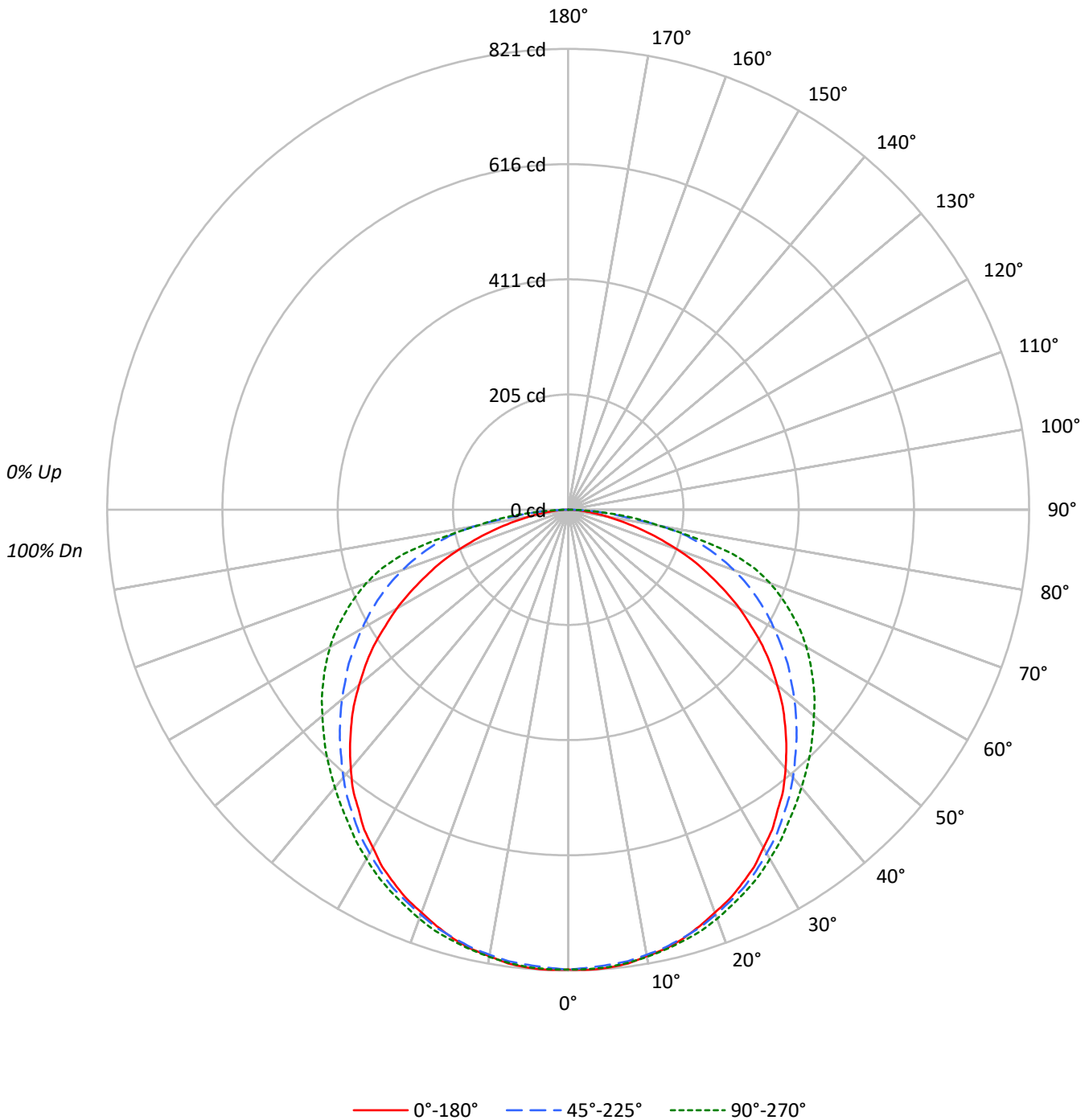
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1102	1102	1102
5°	1107	1100	1105
10°	1104	1100	1105
15°	1102	1100	1107
20°	1094	1099	1110
25°	1090	1101	1113
30°	1080	1098	1116
35°	1070	1095	1121
40°	1058	1094	1135
45°	1040	1094	1161
50°	1017	1101	1196
55°	991	1119	1249
60°	949	1141	1318
65°	889	1181	1399
70°	808	1235	1505
75°	685	1303	1572
80°	541	1312	1272
85°	398	997	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.0
10°-20°	223.7	8.6
20°-30°	342.0	13.1
30°-40°	418.2	16.0
40°-50°	445.7	17.1
50°-60°	426.1	16.4
60°-70°	361.0	13.9
70°-80°	242.6	9.3
80°-90°	68.4	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°	643.5	24.7
0°-40°	1061.6	40.7
0°-60°	1933.4	74.2
0°-90°	2605.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	819	818	814	818	818	78
15°	791	791	790	796	795	223
25°	734	737	742	748	750	338
35°	651	656	667	680	682	408
45°	547	556	575	600	610	422
55°	423	438	477	514	532	376
65°	279	308	371	420	439	277
75°	132	180	251	293	302	141
85°	26	53	65	70	72	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.3	819.3	819.3	819.3	819.3
2.5°	820.6	820.6	816.7	819.3	819.3
5°	819.3	818.0	814.2	818.0	818.0
7.5°	815.5	814.2	811.6	815.5	814.2
10°	807.7	807.7	805.1	809.0	809.0
12.5°	801.2	799.9	798.7	803.8	802.5
15°	790.9	790.9	789.6	796.1	794.8
17.5°	778.0	779.3	780.6	785.7	787.0
20°	763.8	766.3	767.6	775.4	775.4
22.5°	750.8	752.1	754.7	762.5	762.5
25°	734.0	736.6	741.8	748.3	749.5
27.5°	717.2	718.5	725.0	734.0	735.3
30°	695.3	699.1	706.9	717.2	718.5
32.5°	675.9	679.8	688.8	699.1	701.7
35°	651.3	656.5	666.8	679.8	682.3
37.5°	629.4	633.2	646.2	660.4	664.3
40°	602.2	610.0	622.9	639.7	646.2
42.5°	575.1	582.8	598.3	620.3	628.1
45°	546.7	555.7	575.1	599.6	610.0
47.5°	518.2	528.6	550.5	579.0	590.6
50°	485.9	498.8	526.0	558.3	571.2
52.5°	454.9	470.4	500.1	536.3	553.1
55°	422.6	438.1	476.9	514.3	532.4
57.5°	386.4	407.1	449.7	492.4	511.8
60°	352.8	372.2	423.9	470.4	489.8
62.5°	316.6	342.5	398.0	447.1	466.5
65°	279.1	307.6	370.9	420.0	439.4
67.5°	245.5	276.6	343.8	392.9	412.2
70°	205.5	244.2	314.0	363.1	382.5
72.5°	168.0	210.6	283.0	330.8	348.9
75°	131.8	179.6	250.7	293.4	302.4
77.5°	98.2	148.6	217.1	235.2	228.7
80°	69.8	118.9	169.3	160.2	164.1
82.5°	45.2	90.5	104.7	118.9	122.8
85°	25.8	53.0	64.6	69.8	72.4
87.5°	11.6	19.4	25.8	25.8	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)