

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: P276276

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2636.5 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

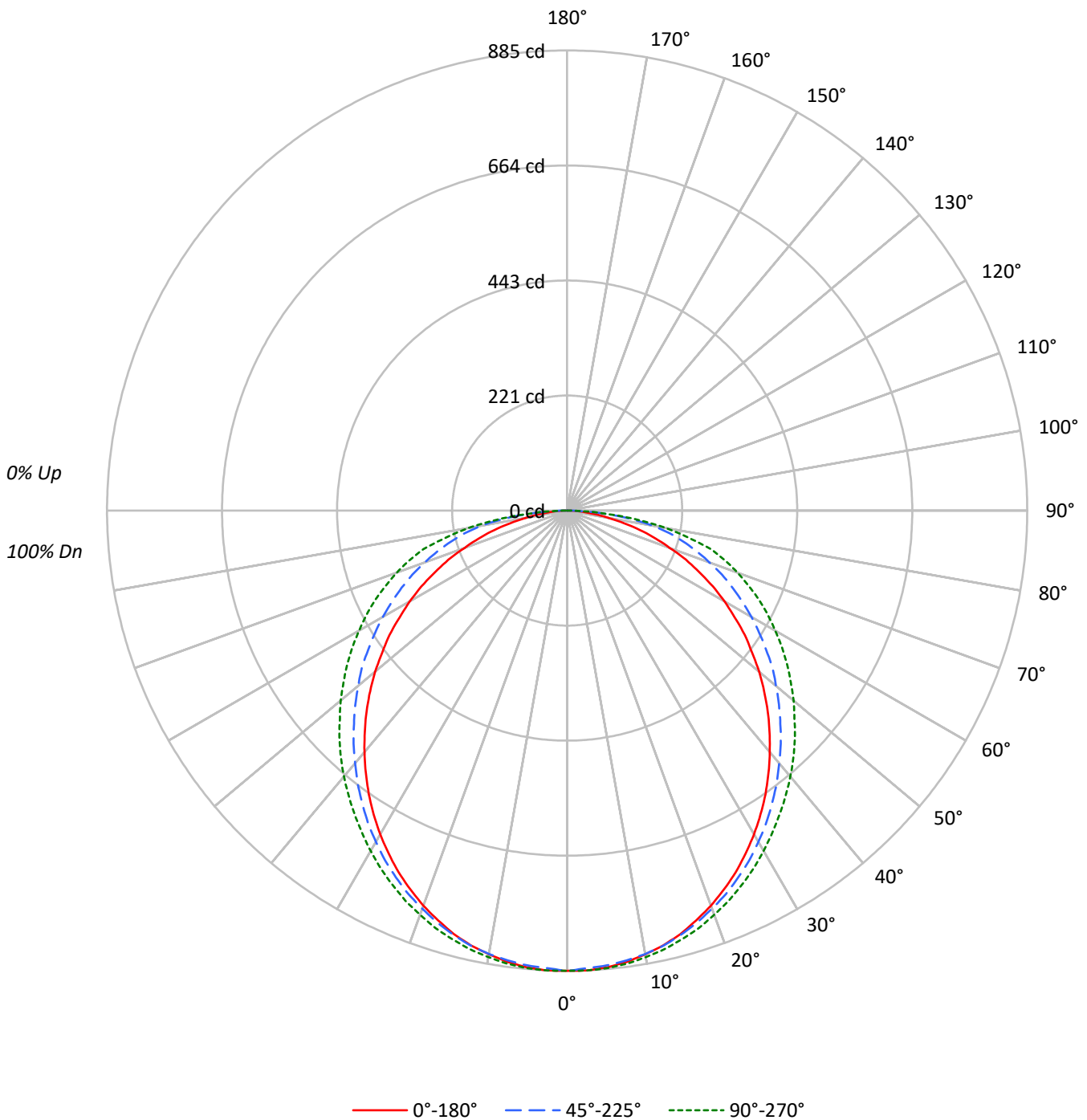
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1191	1191	1191
5°	1191	1186	1193
10°	1184	1183	1191
15°	1174	1177	1189
20°	1158	1167	1184
25°	1139	1156	1180
30°	1117	1143	1174
35°	1093	1129	1171
40°	1065	1114	1173
45°	1038	1103	1179
50°	1009	1098	1190
55°	978	1096	1212
60°	940	1101	1243
65°	891	1118	1297
70°	827	1146	1371
75°	755	1203	1487
80°	621	1296	1486
85°	475	1195	1277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.2
10°-20°	239.0	9.1
20°-30°	359.7	13.6
30°-40°	431.0	16.3
40°-50°	449.2	17.0
50°-60°	417.9	15.9
60°-70°	344.2	13.1
70°-80°	234.4	8.9
80°-90°	77.4	2.9
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°	682.4	25.9
0°-40°	1113.4	42.2
0°-60°	1980.5	75.1
0°-90°	2636.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	882	882	878	883	883	84
15°	843	844	845	853	854	237
25°	767	771	779	792	795	353
35°	665	673	687	706	713	416
45°	546	557	580	609	620	421
55°	417	431	467	504	516	372
65°	280	304	351	392	407	278
75°	145	178	231	273	286	153
85°	31	60	77	83	83	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.2	885.2	885.2	885.2	885.2
2.5°	885.2	885.2	880.8	885.2	885.2
5°	881.7	881.7	878.2	882.6	883.4
7.5°	875.5	876.4	872.9	878.2	879.0
10°	866.7	867.6	865.8	871.1	872.0
12.5°	856.2	857.0	857.0	863.2	864.1
15°	843.0	843.8	844.7	852.6	853.5
17.5°	826.2	828.9	830.6	840.3	842.1
20°	808.6	811.3	814.8	825.4	827.1
22.5°	788.4	791.9	798.1	809.5	812.2
25°	767.3	770.8	778.7	791.9	794.6
27.5°	743.5	748.8	758.5	772.6	776.1
30°	718.9	724.2	735.6	750.6	755.8
32.5°	692.5	699.5	712.7	729.5	734.7
35°	665.2	673.1	687.2	705.7	712.7
37.5°	636.2	645.0	661.7	681.9	690.7
40°	606.3	616.8	634.4	658.2	667.9
42.5°	576.3	586.0	608.0	633.5	644.1
45°	545.5	557.0	579.9	608.9	619.5
47.5°	513.9	525.3	552.6	583.4	593.1
50°	482.2	493.6	524.4	557.0	568.4
52.5°	447.9	462.8	498.0	530.6	542.0
55°	417.1	431.2	467.2	504.2	516.5
57.5°	381.9	398.6	438.2	476.9	490.1
60°	349.3	366.9	409.2	448.8	462.0
62.5°	315.9	335.2	380.1	420.6	435.6
65°	279.8	303.6	351.1	392.4	407.4
67.5°	247.3	271.9	322.0	364.3	377.5
70°	210.3	240.2	291.3	333.5	348.4
72.5°	178.6	208.5	262.2	303.6	318.5
75°	145.2	177.7	231.4	272.8	286.0
77.5°	111.7	147.8	201.5	233.2	237.6
80°	80.1	117.9	167.2	185.7	191.8
82.5°	56.3	90.6	123.2	135.5	139.0
85°	30.8	59.8	77.4	82.7	82.7
87.5°	13.2	25.5	30.8	31.7	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)