

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: P277071

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277071
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: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3007.5 lumens
Efficiency: N/A
Efficacy: 68.1 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

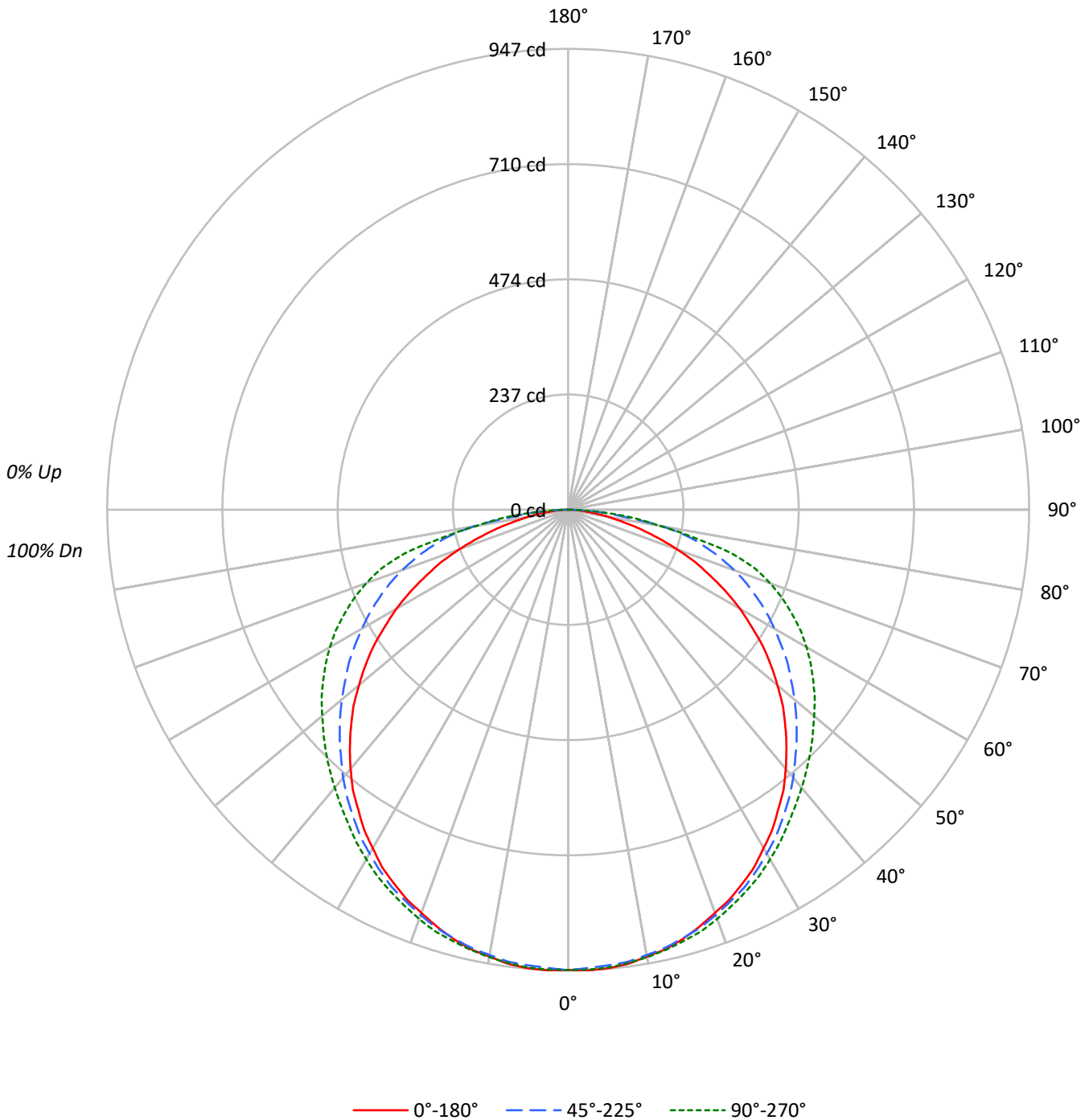
Input Watts (W): 44.175
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1273	1273	1273
5°	1277	1269	1275
10°	1274	1270	1276
15°	1272	1270	1278
20°	1262	1269	1282
25°	1258	1271	1284
30°	1247	1268	1289
35°	1235	1264	1294
40°	1221	1263	1310
45°	1201	1263	1340
50°	1174	1271	1380
55°	1144	1291	1442
60°	1096	1317	1521
65°	1026	1363	1615
70°	933	1426	1737
75°	791	1504	1815
80°	625	1514	1468
85°	460	1152	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	3.0
10°-20°	258.2	8.6
20°-30°	394.8	13.1
30°-40°	482.7	16.0
40°-50°	514.4	17.1
50°-60°	491.9	16.4
60°-70°	416.7	13.9
70°-80°	280.1	9.3
80°-90°	79.0	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°	742.8	24.7
0°-40°	1225.5	40.7
0°-60°	2231.8	74.2
0°-90°	3007.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	946	944	940	944	944	90
15°	913	913	912	919	917	257
25°	847	850	856	864	865	391
35°	752	758	770	785	788	471
45°	631	642	664	692	704	487
55°	488	506	550	594	615	434
65°	322	355	428	485	507	320
75°	152	207	289	339	349	163
85°	30	61	75	81	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.8	945.8	945.8	945.8	945.8
2.5°	947.3	947.3	942.8	945.8	945.8
5°	945.8	944.3	939.8	944.3	944.3
7.5°	941.3	939.8	936.8	941.3	939.8
10°	932.4	932.4	929.4	933.8	933.8
12.5°	924.9	923.4	921.9	927.9	926.4
15°	913.0	913.0	911.5	918.9	917.4
17.5°	898.0	899.5	901.0	907.0	908.5
20°	881.6	884.6	886.1	895.1	895.1
22.5°	866.7	868.2	871.2	880.1	880.1
25°	847.3	850.3	856.3	863.7	865.2
27.5°	827.9	829.4	836.9	847.3	848.8
30°	802.6	807.0	816.0	827.9	829.4
32.5°	780.2	784.7	795.1	807.0	810.0
35°	751.9	757.8	769.8	784.7	787.7
37.5°	726.5	731.0	745.9	762.3	766.8
40°	695.2	704.1	719.0	738.4	745.9
42.5°	663.8	672.8	690.7	716.0	725.0
45°	631.0	641.5	663.8	692.2	704.1
47.5°	598.2	610.1	635.5	668.3	681.7
50°	560.9	575.8	607.2	644.4	659.4
52.5°	525.1	543.0	577.3	619.1	638.5
55°	487.8	505.7	550.5	593.7	614.6
57.5°	446.0	469.9	519.1	568.4	590.7
60°	407.3	429.6	489.3	543.0	565.4
62.5°	365.5	395.3	459.5	516.2	538.5
65°	322.2	355.0	428.1	484.8	507.2
67.5°	283.4	319.2	396.8	453.5	475.9
70°	237.2	281.9	362.5	419.2	441.6
72.5°	193.9	243.2	326.7	381.9	402.8
75°	152.2	207.4	289.4	338.6	349.1
77.5°	113.4	171.6	250.6	271.5	264.0
80°	80.6	137.2	195.4	185.0	189.5
82.5°	52.2	104.4	120.8	137.2	141.7
85°	29.8	61.2	74.6	80.6	83.5
87.5°	13.4	22.4	29.8	29.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)