

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: P277064

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277064
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: 24CZ2-55HE-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: 3021.5 lumens
Efficiency: N/A
Efficacy: 75.2 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

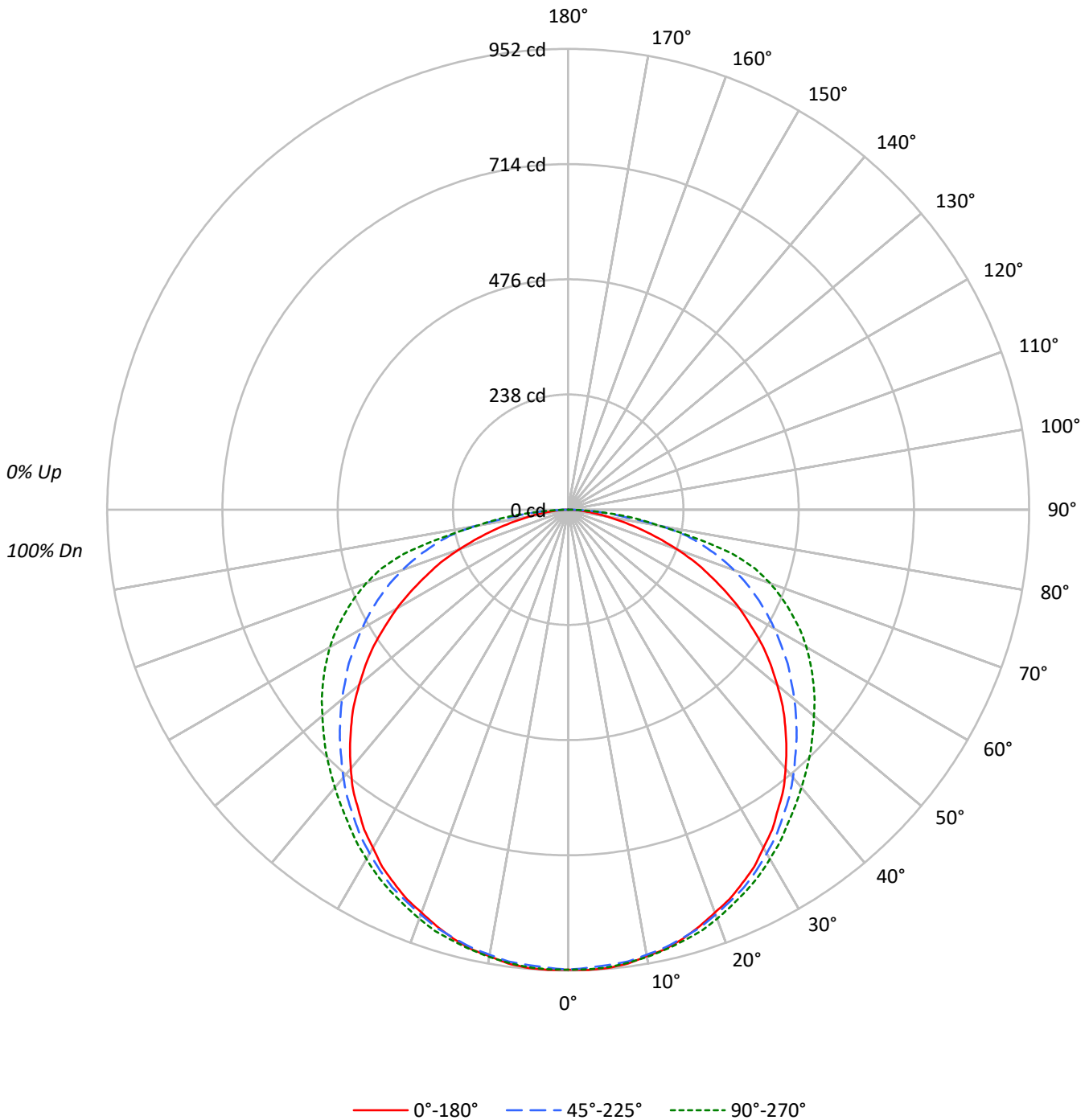
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1278	1278	1278
5°	1283	1275	1281
10°	1280	1276	1282
15°	1278	1276	1284
20°	1268	1275	1288
25°	1264	1277	1291
30°	1253	1274	1295
35°	1241	1270	1300
40°	1227	1269	1316
45°	1206	1269	1346
50°	1180	1277	1387
55°	1150	1297	1449
60°	1101	1323	1528
65°	1031	1369	1622
70°	937	1433	1745
75°	795	1512	1823
80°	627	1521	1475
85°	463	1156	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.0
10°-20°	259.4	8.6
20°-30°	396.7	13.1
30°-40°	484.9	16.0
40°-50°	516.8	17.1
50°-60°	494.2	16.4
60°-70°	418.6	13.9
70°-80°	281.4	9.3
80°-90°	79.4	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°	746.2	24.7
0°-40°	1231.2	40.7
0°-60°	2242.2	74.2
0°-90°	3021.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	950	949	944	949	949	90
15°	917	917	916	923	922	259
25°	851	854	860	868	869	392
35°	755	761	773	788	791	473
45°	634	644	667	695	707	489
55°	490	508	553	596	618	436
65°	324	357	430	487	510	321
75°	153	208	291	340	351	164
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°	950.2	950.2	950.2	950.2	950.2
2.5°	951.7	951.7	947.2	950.2	950.2
5°	950.2	948.7	944.2	948.7	948.7
7.5°	945.7	944.2	941.2	945.7	944.2
10°	936.7	936.7	933.7	938.2	938.2
12.5°	929.2	927.7	926.2	932.2	930.7
15°	917.2	917.2	915.7	923.2	921.7
17.5°	902.2	903.7	905.2	911.2	912.7
20°	885.7	888.7	890.2	899.2	899.2
22.5°	870.8	872.3	875.2	884.2	884.2
25°	851.3	854.3	860.3	867.8	869.3
27.5°	831.8	833.3	840.8	851.3	852.8
30°	806.3	810.8	819.8	831.8	833.3
32.5°	783.8	788.3	798.8	810.8	813.8
35°	755.4	761.3	773.3	788.3	791.3
37.5°	729.9	734.4	749.4	765.8	770.3
40°	698.4	707.4	722.4	741.9	749.4
42.5°	666.9	675.9	693.9	719.4	728.4
45°	634.0	644.4	666.9	695.4	707.4
47.5°	601.0	613.0	638.5	671.4	684.9
50°	563.5	578.5	610.0	647.4	662.4
52.5°	527.5	545.5	580.0	622.0	641.4
55°	490.1	508.1	553.0	596.5	617.5
57.5°	448.1	472.1	521.6	571.0	593.5
60°	409.1	431.6	491.6	545.5	568.0
62.5°	367.2	397.2	461.6	518.6	541.0
65°	323.7	356.7	430.1	487.1	509.6
67.5°	284.8	320.7	398.7	455.6	478.1
70°	238.3	283.3	364.2	421.1	443.6
72.5°	194.8	244.3	328.2	383.7	404.7
75°	152.9	208.3	290.8	340.2	350.7
77.5°	113.9	172.4	251.8	272.8	265.3
80°	80.9	137.9	196.3	185.8	190.3
82.5°	52.5	104.9	121.4	137.9	142.4
85°	30.0	61.4	74.9	80.9	83.9
87.5°	13.5	22.5	30.0	30.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)