

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: P277051

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277051
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: 24CZ2-45HE-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2690.1 lumens
Efficiency: N/A
Efficacy: 83.1 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

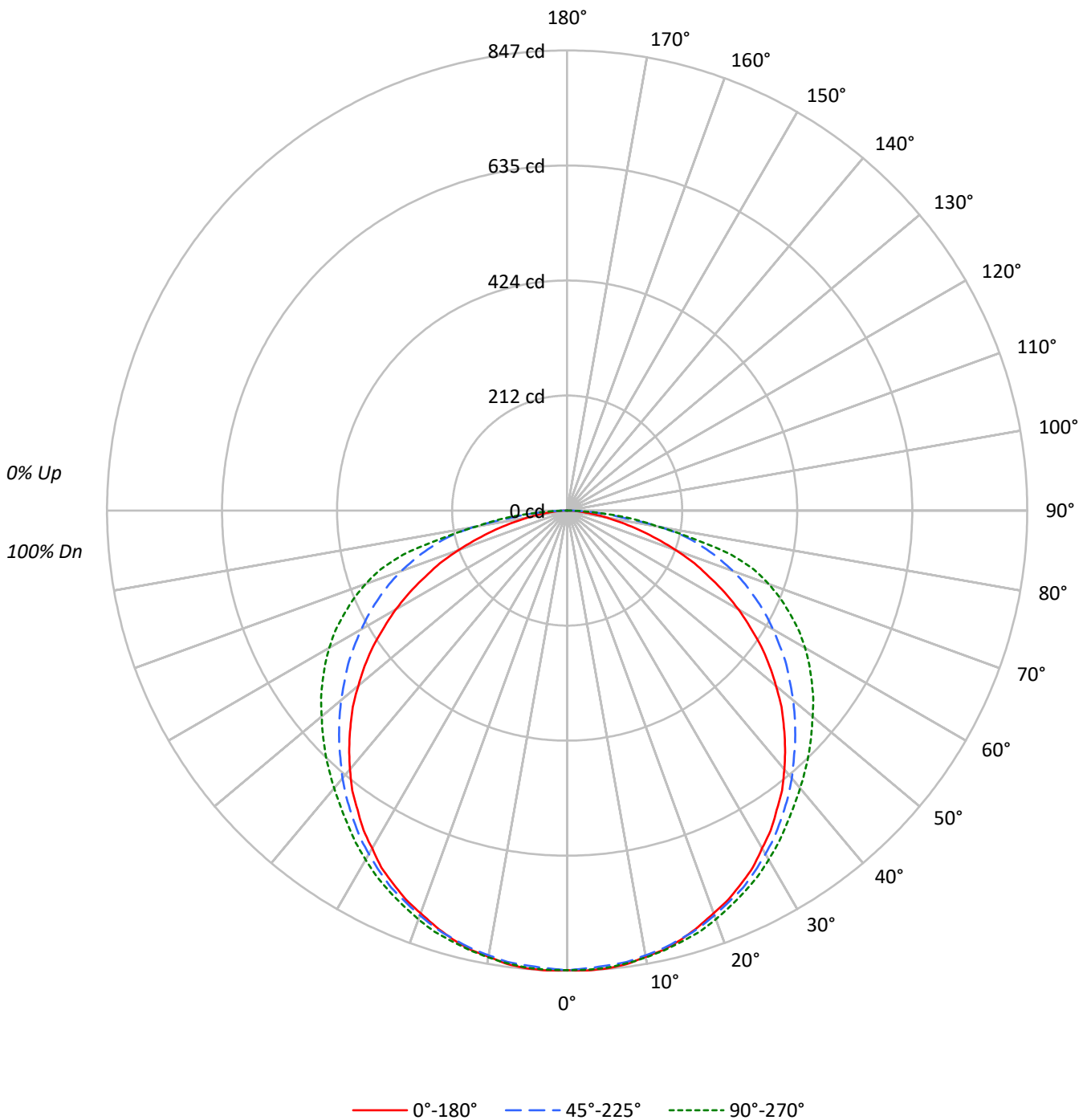
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1138	1138	1138
5°	1142	1135	1141
10°	1139	1136	1141
15°	1137	1136	1143
20°	1129	1135	1146
25°	1125	1137	1149
30°	1115	1134	1153
35°	1105	1131	1157
40°	1092	1130	1172
45°	1074	1130	1198
50°	1050	1137	1235
55°	1023	1155	1289
60°	980	1178	1361
65°	918	1219	1444
70°	835	1275	1554
75°	708	1346	1623
80°	559	1354	1313
85°	412	1030	1153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.0
10°-20°	230.9	8.6
20°-30°	353.2	13.1
30°-40°	431.7	16.0
40°-50°	460.2	17.1
50°-60°	440.0	16.4
60°-70°	372.7	13.9
70°-80°	250.5	9.3
80°-90°	70.7	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°	664.4	24.7
0°-40°	1096.1	40.7
0°-60°	1996.2	74.2
0°-90°	2690.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	846	845	841	845	845	80
15°	817	817	815	822	821	230
25°	758	760	766	773	774	349
35°	672	678	688	702	704	421
45°	564	574	594	619	630	435
55°	436	452	492	531	550	389
65°	288	318	383	434	454	286
75°	136	186	259	303	312	146
85°	27	55	67	72	75	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.9	845.9	845.9	845.9	845.9
2.5°	847.3	847.3	843.3	845.9	845.9
5°	845.9	844.6	840.6	844.6	844.6
7.5°	841.9	840.6	837.9	841.9	840.6
10°	833.9	833.9	831.3	835.3	835.3
12.5°	827.3	825.9	824.6	829.9	828.6
15°	816.6	816.6	815.3	821.9	820.6
17.5°	803.2	804.6	805.9	811.2	812.6
20°	788.6	791.2	792.6	800.6	800.6
22.5°	775.2	776.6	779.2	787.2	787.2
25°	757.9	760.5	765.9	772.6	773.9
27.5°	740.5	741.9	748.5	757.9	759.2
30°	717.8	721.9	729.9	740.5	741.9
32.5°	697.8	701.8	711.2	721.9	724.5
35°	672.5	677.8	688.5	701.8	704.5
37.5°	649.8	653.8	667.1	681.8	685.8
40°	621.8	629.8	643.1	660.5	667.1
42.5°	593.8	601.8	617.8	640.5	648.5
45°	564.4	573.7	593.8	619.1	629.8
47.5°	535.1	545.7	568.4	597.8	609.8
50°	501.7	515.0	543.1	576.4	589.8
52.5°	469.7	485.7	516.4	553.7	571.1
55°	436.3	452.3	492.4	531.0	549.7
57.5°	399.0	420.3	464.3	508.4	528.4
60°	364.3	384.3	437.6	485.7	505.7
62.5°	326.9	353.6	411.0	461.7	481.7
65°	288.2	317.6	382.9	433.6	453.7
67.5°	253.5	285.5	354.9	405.6	425.6
70°	212.2	252.2	324.2	374.9	395.0
72.5°	173.5	217.5	292.2	341.6	360.3
75°	136.1	185.5	258.9	302.9	312.2
77.5°	101.4	153.4	224.2	242.8	236.2
80°	72.1	122.8	174.8	165.5	169.5
82.5°	46.7	93.4	108.1	122.8	126.8
85°	26.7	54.7	66.7	72.1	74.7
87.5°	12.0	20.0	26.7	26.7	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)