

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: P277063

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277063
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-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: 2877.1 lumens
Efficiency: N/A
Efficacy: 72.5 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

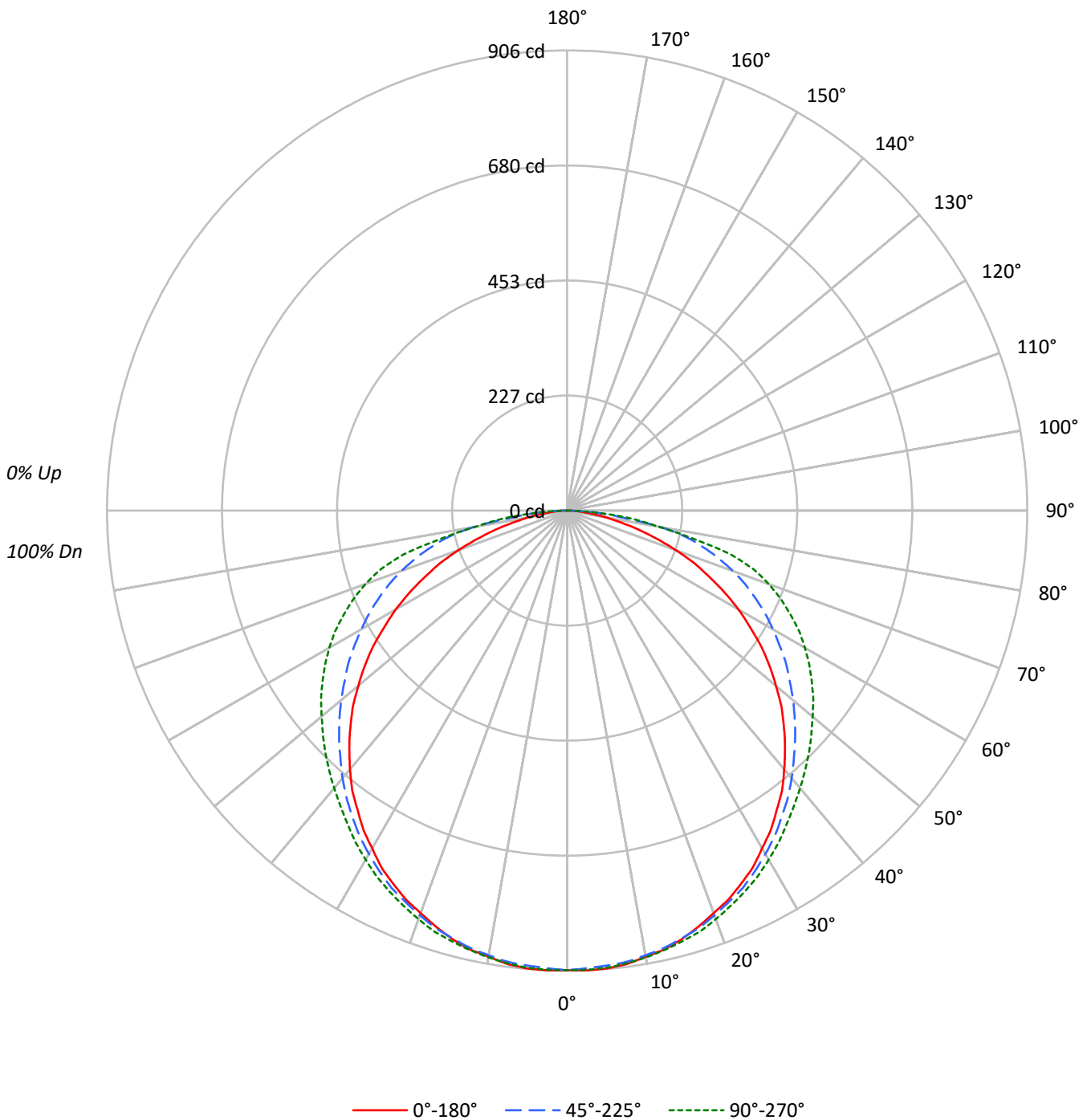
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1217	1217	1217
5°	1222	1214	1220
10°	1219	1215	1220
15°	1217	1215	1223
20°	1208	1214	1226
25°	1203	1216	1229
30°	1193	1213	1233
35°	1181	1210	1238
40°	1168	1208	1253
45°	1149	1208	1282
50°	1123	1216	1320
55°	1095	1235	1379
60°	1048	1260	1456
65°	981	1304	1545
70°	893	1364	1662
75°	757	1439	1736
80°	597	1448	1404
85°	440	1102	1233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.0
10°-20°	247.0	8.6
20°-30°	377.7	13.1
30°-40°	461.8	16.0
40°-50°	492.1	17.1
50°-60°	470.6	16.4
60°-70°	398.6	13.9
70°-80°	267.9	9.3
80°-90°	75.6	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°	710.6	24.7
0°-40°	1172.3	40.7
0°-60°	2135.0	74.2
0°-90°	2877.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	905	903	899	903	903	86
15°	873	873	872	879	878	246
25°	811	813	819	826	828	374
35°	719	725	736	751	754	451
45°	604	614	635	662	674	466
55°	467	484	527	568	588	416
65°	308	340	410	464	485	306
75°	146	198	277	324	334	156
85°	28	58	71	77	80	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.8	904.8	904.8	904.8	904.8
2.5°	906.2	906.2	901.9	904.8	904.8
5°	904.8	903.3	899.1	903.3	903.3
7.5°	900.5	899.1	896.2	900.5	899.1
10°	891.9	891.9	889.1	893.3	893.3
12.5°	884.8	883.4	881.9	887.6	886.2
15°	873.4	873.4	871.9	879.1	877.7
17.5°	859.1	860.5	862.0	867.7	869.1
20°	843.4	846.3	847.7	856.2	856.2
22.5°	829.1	830.6	833.4	842.0	842.0
25°	810.6	813.4	819.1	826.3	827.7
27.5°	792.0	793.5	800.6	810.6	812.0
30°	767.8	772.0	780.6	792.0	793.5
32.5°	746.4	750.6	760.6	772.0	774.9
35°	719.2	725.0	736.4	750.6	753.5
37.5°	695.0	699.3	713.5	729.2	733.5
40°	665.0	673.6	687.8	706.4	713.5
42.5°	635.0	643.6	660.7	685.0	693.6
45°	603.7	613.6	635.0	662.2	673.6
47.5°	572.3	583.7	607.9	639.3	652.2
50°	536.6	550.9	580.8	616.5	630.8
52.5°	502.3	519.5	552.3	592.2	610.8
55°	466.7	483.8	526.6	568.0	588.0
57.5°	426.7	449.5	496.6	543.7	565.1
60°	389.6	411.0	468.1	519.5	540.9
62.5°	349.6	378.2	439.5	493.8	515.2
65°	308.2	339.6	409.6	463.8	485.2
67.5°	271.1	305.4	379.6	433.8	455.2
70°	226.9	269.7	346.8	401.0	422.4
72.5°	185.5	232.6	312.5	365.3	385.3
75°	145.6	198.4	276.9	323.9	333.9
77.5°	108.5	164.1	239.7	259.7	252.6
80°	77.1	131.3	186.9	177.0	181.2
82.5°	49.9	99.9	115.6	131.3	135.6
85°	28.5	58.5	71.4	77.1	79.9
87.5°	12.8	21.4	28.5	28.5	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)