

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: P276916

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276916
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2975.1 lumens
Efficiency: N/A
Efficacy: 92.2 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

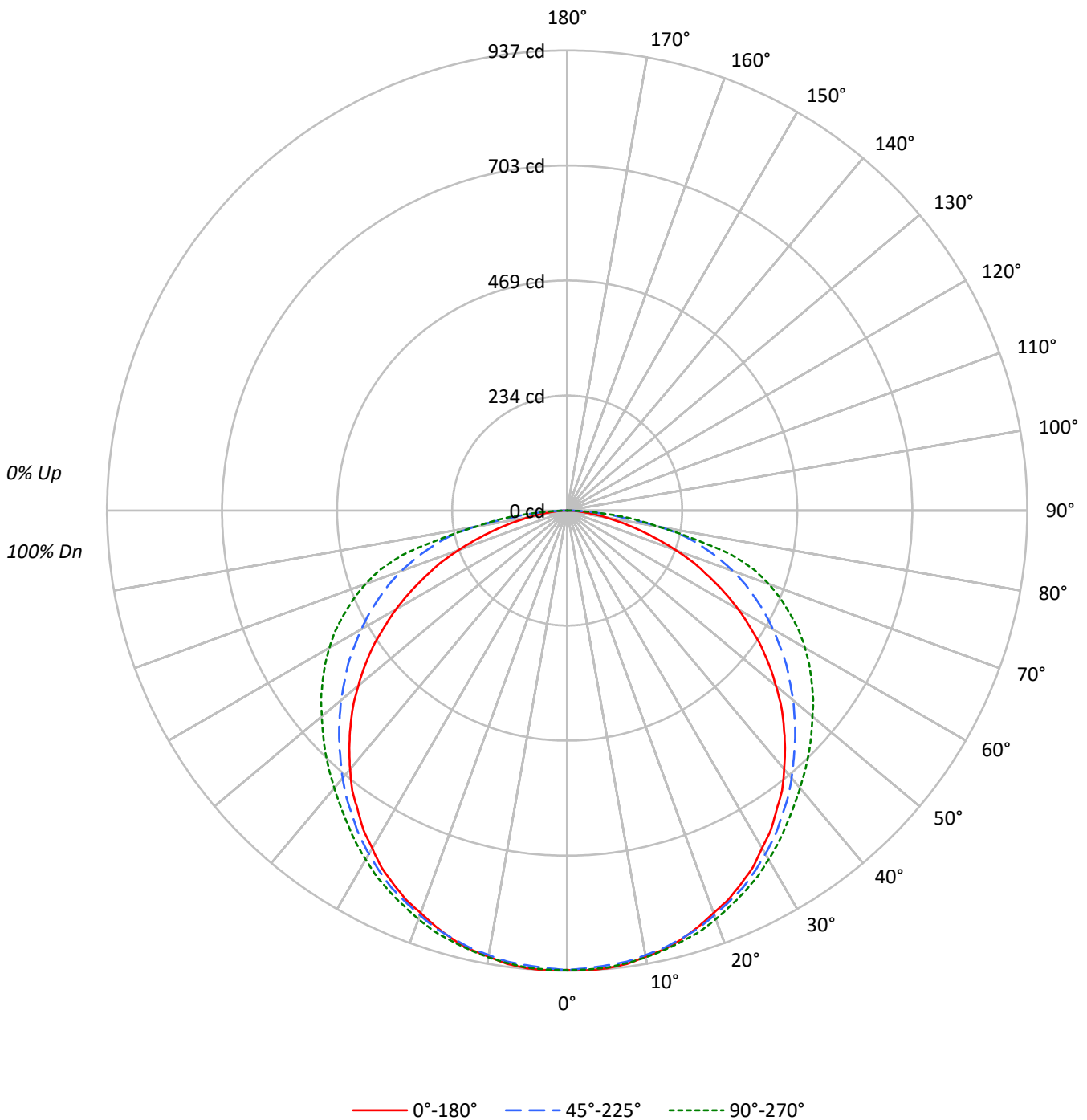
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1259	1259	1259
5°	1264	1256	1262
10°	1260	1256	1262
15°	1258	1256	1264
20°	1249	1255	1268
25°	1244	1257	1271
30°	1233	1254	1275
35°	1222	1251	1280
40°	1208	1249	1296
45°	1188	1250	1325
50°	1162	1257	1365
55°	1132	1277	1426
60°	1084	1302	1505
65°	1015	1348	1597
70°	923	1411	1718
75°	782	1488	1795
80°	618	1498	1452
85°	455	1139	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.0
10°-20°	255.4	8.6
20°-30°	390.6	13.1
30°-40°	477.5	16.0
40°-50°	508.9	17.1
50°-60°	486.6	16.4
60°-70°	412.2	13.9
70°-80°	277.0	9.3
80°-90°	78.1	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°	734.8	24.7
0°-40°	1212.2	40.7
0°-60°	2207.7	74.2
0°-90°	2975.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2975.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	936	934	930	934	934	89
15°	903	903	902	909	908	255
25°	838	841	847	854	856	386
35°	744	750	761	776	779	466
45°	624	634	657	685	696	481
55°	482	500	544	587	608	430
65°	319	351	424	480	502	316
75°	150	205	286	335	345	161
85°	30	60	74	80	83	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.6	935.6	935.6	935.6	935.6
2.5°	937.1	937.1	932.6	935.6	935.6
5°	935.6	934.1	929.7	934.1	934.1
7.5°	931.2	929.7	926.7	931.2	929.7
10°	922.3	922.3	919.3	923.8	923.8
12.5°	914.9	913.4	912.0	917.9	916.4
15°	903.1	903.1	901.6	909.0	907.5
17.5°	888.4	889.8	891.3	897.2	898.7
20°	872.1	875.1	876.6	885.4	885.4
22.5°	857.4	858.8	861.8	870.6	870.6
25°	838.2	841.1	847.0	854.4	855.9
27.5°	819.0	820.5	827.9	838.2	839.7
30°	793.9	798.3	807.2	819.0	820.5
32.5°	771.8	776.2	786.5	798.3	801.3
35°	743.7	749.6	761.4	776.2	779.2
37.5°	718.7	723.1	737.8	754.1	758.5
40°	687.7	696.5	711.3	730.5	737.8
42.5°	656.7	665.5	683.2	708.3	717.2
45°	624.2	634.5	656.7	684.7	696.5
47.5°	591.7	603.6	628.6	661.1	674.4
50°	554.9	569.6	600.6	637.5	652.2
52.5°	519.4	537.1	571.1	612.4	631.6
55°	482.5	500.3	544.5	587.3	608.0
57.5°	441.2	464.8	513.5	562.2	584.4
60°	402.9	425.0	484.0	537.1	559.3
62.5°	361.5	391.1	454.5	510.6	532.7
65°	318.7	351.2	423.5	479.6	501.7
67.5°	280.4	315.8	392.5	448.6	470.7
70°	234.6	278.9	358.6	414.7	436.8
72.5°	191.8	240.5	323.2	377.8	398.4
75°	150.5	205.1	286.3	335.0	345.3
77.5°	112.2	169.7	247.9	268.6	261.2
80°	79.7	135.8	193.3	183.0	187.4
82.5°	51.6	103.3	119.5	135.8	140.2
85°	29.5	60.5	73.8	79.7	82.6
87.5°	13.3	22.1	29.5	29.5	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)