

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: P277069

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277069
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-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: 3328.8 lumens
Efficiency: N/A
Efficacy: 80.6 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

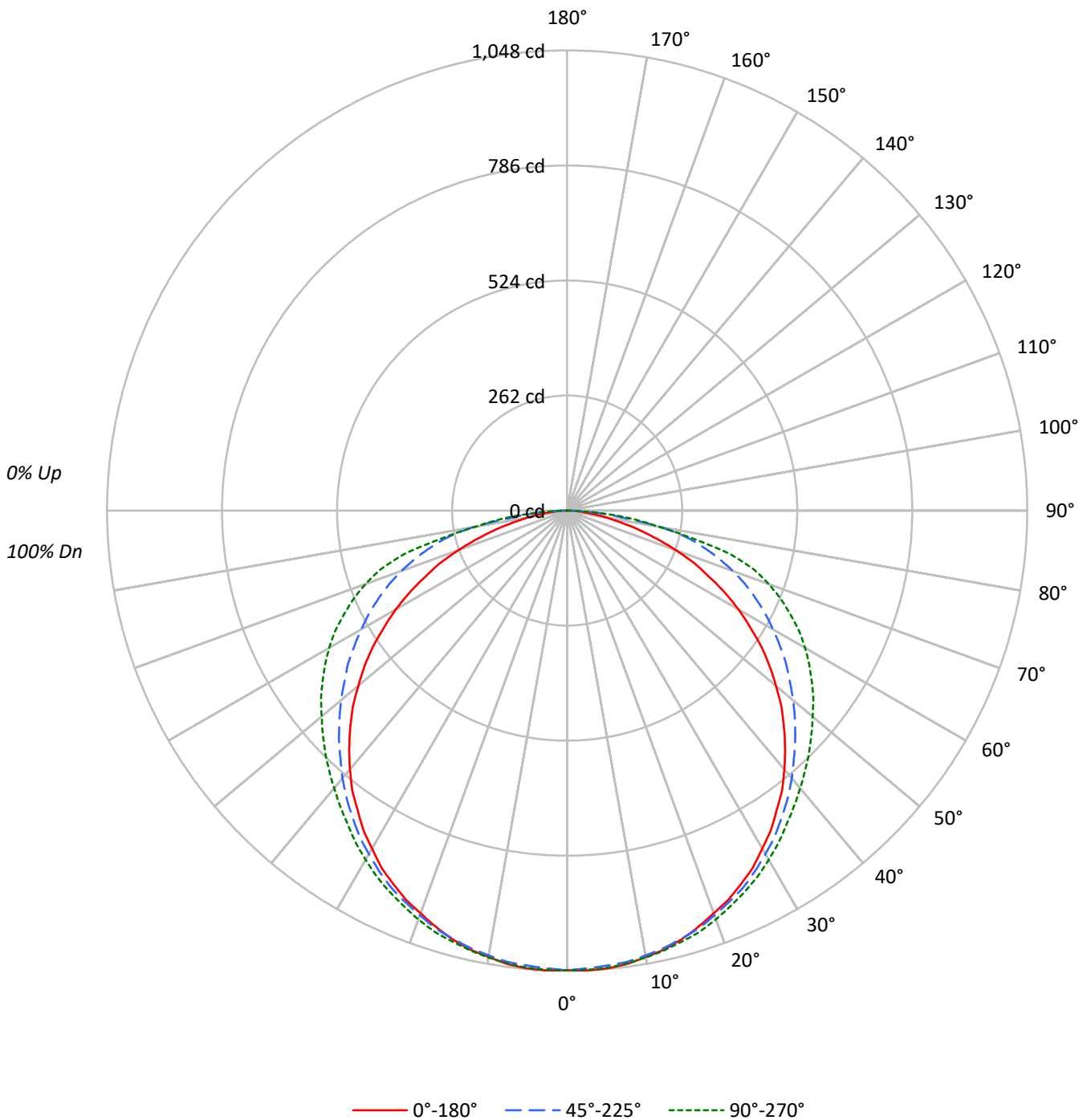
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1408	1408	1408
5°	1414	1405	1412
10°	1410	1405	1412
15°	1408	1405	1415
20°	1397	1404	1419
25°	1392	1407	1422
30°	1380	1403	1426
35°	1367	1399	1432
40°	1351	1398	1450
45°	1329	1398	1483
50°	1299	1407	1528
55°	1266	1429	1596
60°	1213	1457	1684
65°	1135	1509	1787
70°	1033	1578	1923
75°	875	1665	2009
80°	691	1676	1625
85°	509	1275	1428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	285.8	8.6
20°-30°	437.0	13.1
30°-40°	534.3	16.0
40°-50°	569.4	17.1
50°-60°	544.4	16.4
60°-70°	461.2	13.9
70°-80°	310.0	9.3
80°-90°	87.4	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°	822.1	24.7
0°-40°	1356.4	40.7
0°-60°	2470.2	74.2
0°-90°	3328.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1047	1045	1040	1045	1045	99
15°	1010	1010	1009	1017	1016	285
25°	938	941	948	956	958	432
35°	832	839	852	868	872	521
45°	698	710	735	766	779	539
55°	540	560	609	657	680	481
65°	357	393	474	537	561	354
75°	168	230	320	375	386	180
85°	33	68	83	89	92	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.8	1046.8	1046.8	1046.8	1046.8
2.5°	1048.5	1048.5	1043.5	1046.8	1046.8
5°	1046.8	1045.2	1040.2	1045.2	1045.2
7.5°	1041.9	1040.2	1036.9	1041.9	1040.2
10°	1032.0	1032.0	1028.7	1033.6	1033.6
12.5°	1023.7	1022.1	1020.4	1027.0	1025.4
15°	1010.5	1010.5	1008.8	1017.1	1015.5
17.5°	994.0	995.6	997.3	1003.9	1005.5
20°	975.8	979.1	980.8	990.7	990.7
22.5°	959.3	961.0	964.3	974.2	974.2
25°	937.8	941.1	947.8	956.0	957.7
27.5°	916.4	918.0	926.3	937.8	939.5
30°	888.3	893.3	903.2	916.4	918.0
32.5°	863.5	868.5	880.1	893.3	896.6
35°	832.2	838.8	852.0	868.5	871.8
37.5°	804.1	809.1	825.6	843.7	848.7
40°	769.4	779.3	795.8	817.3	825.6
42.5°	734.8	744.7	764.5	792.5	802.5
45°	698.4	710.0	734.8	766.1	779.3
47.5°	662.1	675.3	703.4	739.7	754.6
50°	620.8	637.3	672.0	713.3	729.8
52.5°	581.2	601.0	639.0	685.2	706.7
55°	539.9	559.7	609.3	657.2	680.3
57.5°	493.7	520.1	574.6	629.1	653.9
60°	450.8	475.5	541.6	601.0	625.8
62.5°	404.5	437.6	508.6	571.3	596.1
65°	356.6	393.0	473.9	536.6	561.4
67.5°	313.7	353.3	439.2	501.9	526.7
70°	262.5	312.1	401.2	464.0	488.7
72.5°	214.6	269.1	361.6	422.7	445.8
75°	168.4	229.5	320.3	374.8	386.4
77.5°	125.5	189.9	277.4	300.5	292.3
80°	89.2	151.9	216.3	204.7	209.7
82.5°	57.8	115.6	133.7	151.9	156.9
85°	33.0	67.7	82.6	89.2	92.5
87.5°	14.9	24.8	33.0	33.0	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)